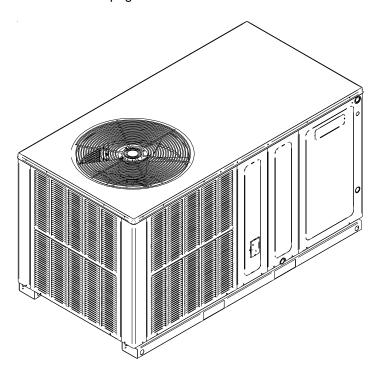


### GPC 13 SEER R-410A Package Air Conditioners with R-410A

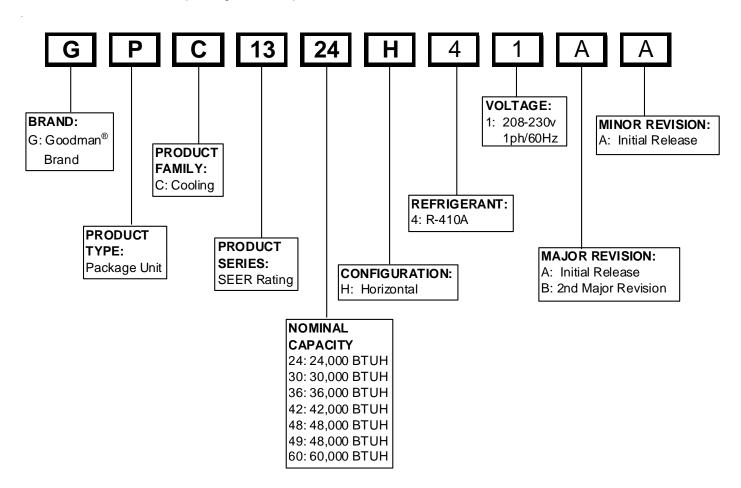
- Refer to Service Manual RS6300011 (Horizontal)
   for installation, operation, and troubleshooting information.
- All safety information must be followed as provided in the Service Manual.
- Refer to the appropriate Parts Catalog for part number information.
- Models listed on page 3.



This manual is to be used by qualified, professionally trained HVAC technicians only. Goodman does not assume any responsibility for property damage or personal injury due to improper service procedures or services performed by an unqualified person.

### PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. Please use these numbers when requesting service or parts information.





### **HIGH VOLTAGE!**

Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.



WARNING
Goodman will not be responsible for any injury or property damage arising from improper service or service procedures. If you install or perform service on this unit, you assume responsibility for any personal injury or property damage which may result. Many jurisdictions require a license to install or service heating and air conditioning equipment.

**WARNING** 

Installation and repair of this unit should be performed <u>ONLY</u> by individuals meeting (at a minimum)

the requirements of an "entry level technician" as specified by the Air-Conditioning, Heating, and Refrigeration Institute (AHRI). Attempting to install or repair this unit without such background may result in product damage, personal injury or death.

### PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. Please use these numbers when requesting service or parts information.

| ᇧ   | / N / |  |
|-----|-------|--|
| IJΙ | /IIVI |  |

| GPC1324H41AA | GPC1324H41AB |
|--------------|--------------|
| GPC1330H41AA | GPC1330H41AB |
| GPC1336H41AA | GPC1336H41AB |
| GPC1342H41AA | GPC1342H41AB |
|              | GPC1349H41AA |
| GPC1348H41BA | GPC1360H41BB |
| GPC1360H41BA |              |

5 mm model specific information begins on page 29.



The United States Environmental Protection Agency ("EPA") has issued various regulations regarding the introduction and disposal of refrigerants introduced into this unit. Failure to follow these regulations may harm the environment and can lead to the imposition of substantial fines. These regulations may vary by jurisdiction. Should questions arise, contact your local EPA office.

**WARNING** 

Do not connect or use any device that is not design certified by Goodman for use with this unit.

Serious property damage, personal injury, reduced unit performance and/or hazardous conditions may result from the use of such non-approved devices. to prevent the risk of property damage, personal injury, or death, do not store combustible materials or use gasoline or other flammable liquids or vapors in the vicinity of this appliance.

### PRODUCT DESIGN

GPC Package Cooling Units are designed for outdoor installations only in either residential or light commercial applications.

The connecting ductwork (Supply and Return) can be connected for either horizontal or vertical airflow. In the vertical application a matching Roof Curb is recommended.

A return air filter must be installed behind the return air grille(s) or provision must be made for a filter in an accessible location within the return air duct. The minimum filter area should not be less than those sizes listed in the Specification Section. Under no circumstances should the unit be operated without return air filters.

A 3/4" PVC pipe is provided for removal of condensate water from the indoor coil In order to provide proper condensate flow, a drain trap is supplied and shipped loose inside the unit for field installation. (Do not reduce the drain line size.)

Refrigerant flow control is achieved by use of restrictor orifices. GPC units use the FasTest Access Fitting System with a saddle that is either soldered to the suction and liquid lines or is fastened with a locking nut to the access fitting box (core) and then screwed into the saddle. **Do not remove the core from the saddle until the refrigerant charge has been removed. Failure to do so could result in property damage or personal injury.** 

The single phase units use permanent split capacitor (PSC) design compressors. Starting components are therefore not required for these units. A low microfarad run capacitor assists the compressor to start and remains in the circuit during operation.

The outdoor fan and indoor blower motors are single phase capacitor type motors with the exception of the GPC1360H41\* units which have X-13 indoor blower motors that are energized by a 24V signal from the thermostat and are constant torque motors with very low power consumption. The X-13 features an integral control module.

Air for condensing (cooling cycle) is drawn through the outdoor coil by a propeller fan, and is discharged vertically out the top of the unit. The outdoor coil is designed for .0 static. No additional restriction (ductwork) shall be applied.

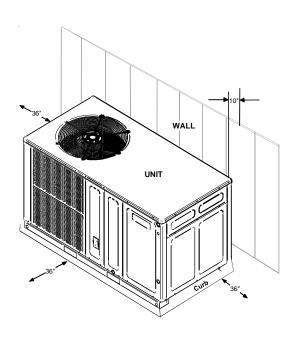
Conditioned air is drawn through the filter(s), field installed, across the coil and back into the conditioned space by the indoor blower.

GPC1324-30H41\* use Copeland Reciprocating Compressors.

- Due to their design Scroll Compressors are inherently more tolerant of liquid refrigerant. NOTE: Even though the compressor section of a Scroll compressor is more tolerant of liquid refrigerant, continued floodback or flooded start conditions may wash oil from the bearing surfaces causing premature bearing failure.
- Scroll Compressors use white oil which is compatible with 3GS oil which may be used if additional oil is required.
- Operating pressures and amp draws may differ from standard reciprocating compressors. This information may be found in the "Cooling Performance Data" section.

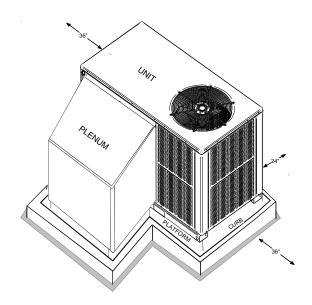
### Location and Clearances

**NOTE:** To ensure proper condensate drainage, unit must be installed in a level position.



### **Outside Slab Installation - Horizontal (H)**

Minimum clearances are required to avoid air recirculation and keep the unit operating at peak efficiency.



**Rooftop Installation - Horizontal (H)** 

### **PRODUCT DESIGN**

In installations where the unit is installed above ground level and not serviceable from the ground (Example: Roof Top installations), the installer must provide service platform for service person with rails or guards in accordance with local codes or ordinances or in their absence with the latest edition of the Uniform Mechanical Code Section 305.

NOTE: Unit can also use roof curb.

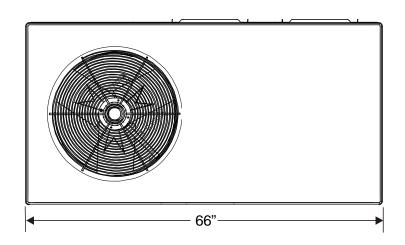
Refer to Roof Curb Installation Instructions for proper curb installation. Curbing must be installed in compliance with the National Roofing Contractors Association Manual.

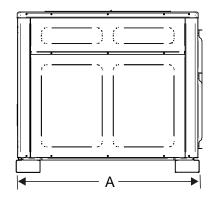


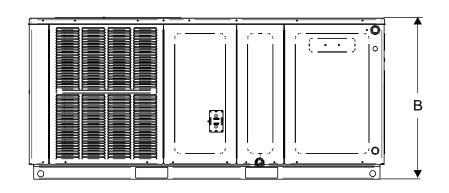
TO PREVENT POSSIBLE PROPERTY DAMAGE, THE UNIT SHOULD REMAIN IN AN UPRIGHT POSITION DURING ALL RIGGING AND MOVING OPERATIONS. TO FACILITATE LIFTING AND MOVING IF A CRANE IS USED, PLACE THE UNIT IN AN ADEQUATE CABLE SLING.

### **PRODUCT DIMENSIONS**

### GPC13[24-60]H41\*\*







| Chassis | Model   | Α  | В   |
|---------|---------|----|-----|
| Small   | GPC1324 | 33 | 30½ |
| Oman    | GPC1330 | 33 | 30½ |
|         | GPC1336 | 33 | 35½ |
| Medium  | GPC1342 | 33 | 35½ |
|         | GPC1349 | 33 | 35½ |
| Large   | GPC1348 | 33 | 38½ |
|         | GPC1360 | 33 | 38½ |

Dimensions in inches

### GPC13[24-60]H41\*\*

### **ACCESSORIES**

| Part Number   | Description  |
|---------------|--|
| OT18-60 A     | Outdoor Thermostat Kit w/Lockout Stat                                  |
| OT/EHR18-60   | Emergency Heat Relay Kit   |
| HKR           | Electric Heat Kit  |
| PCCP101-103   | Roof Curb  |
| PCP101-103    | Downflow Plenum Kit  |
| PCP101-103R8  | Downflow Plenum Kit w/ R-8 Insulation                                  |
| GPCED101-103  | Downflow Economizer for GPC-(H) A/C - To Be Used With PCP101-103       |
| GPHED101-103  | Downflow Economizer for GPH-(H) Heat Pump - To Be Used With PCP101-103 |
| GPCEH101-103  | Horizontal Economizer for GPC-(H) A/C                                  |
| GPHEH101-103  | Horizontal Economizer for GPH-(H) Heat Pump                            |
| PCMD101-103   | Manual Damper - To Be Used With PCP101-103                             |
| PCMDM101-103  | Motorized Damper - To Be Used With PCP101-103                          |
| GPHMD101-103  | Manual Damper for Horizontal Applications                              |
| SQRPCH101     | Square to Round Adapters 16"&14"                                       |
| SQRPCH102-103 | Square to Round Adapters 18"&14"                                       |
| SQRPC101      | Square to Round Adapter - For Use With PCCP101-103 Curb 16" Rounds     |
| SQRPC102-103  | Square to Round Adapter For Use With PCCP101-103 Curb 18" Rounds       |
| PCFR101-103   | External Horizontal Filter Rack  |
| PCEF101-103   | Elbow & Flashing w/ R-8 Liner  |
| CDK36         | Flush Mount Concentric Duct Kit  |
| CDK36515      | Flush Mount Concentric Duct Kit w/ Filter                              |
| CDK36530      | Step Down Concentric Duct Kit  |
| CDK36535      | Step Down Concentric Duct Kit w/ Filter                                |
| CDK4872       | Flush Mount Concentric Duct Kit  |
| CDK4872515    | Flush Mount Concentric Duct Kit w/ Filter                              |
| CDK4872530    | Step Down Concentric Duct Kit  |
| CDK4872535    | Step Down Concentric Duct Kit w/ Filter                                |

### **PRODUCT DESIGN**

### GPC13[24-60]H41\*\*

### **ELECTRICAL DATA (\*Blower Only, Heat Mode)**

|                             | Cir  | rcuit #1   | Ci   | rcuit #2   |                               |
|-----------------------------|--|--|--|--|-------------------------------|
| Model and<br>Heat Kit Usage | Minimum Circuit<br>Ampacity<br>at 208 / 240V | Maximum<br>Overcurrent<br>Protection (amps)<br>at 208 / 240V | Minimum Circuit<br>Ampacity<br>at 208 / 240V | Maximum<br>Overcurrent<br>Protection (amps)<br>at 208 / 240V | Actual<br>kW & BTU<br>at 240V |
| GPC1324H41*                 |  |  |  |  |                               |
| HKR05*,C*                   | 24 / 27                                      | 30/30  |  |  | 4.75 / 16,200                 |
| HKR08*,C*                   | 33 / 38                                      | 40 / 40  |  |  | 7.0 / 23,800                  |
| HKR10*,C*                   | 45 / 51                                      | 60 / 60  |  |  | 9.5 / 32,400                  |
| GPC1330H41*                 | 2.4 / 2.4                                    |  |  |  |                               |
| HKR05*,C*                   | 24 / 27                                      | 30/30  |  |  | 4.75 / 16,200                 |
| HKR08*,C*                   | 34 / 39                                      | 40 / 40  |  |  | 7.0 / 23,800                  |
| HKR10*,C*                   | 45 / 52                                      | 60/60  |  |  | 9.5 / 32,400                  |
| HKR15*,C*                   | 45 / 52                                      | 60/60  | 22 / 25                                      | 30 / 30  | 14.25 / 48,600                |
| GPC1336H41*                 |  |  |  |  |                               |
| HKR05*,C*                   | 24 / 27                                      | 30/30  |  |  | 4.75 / 16,200                 |
| HKR08*,C*                   | 34 / 39                                      | 40 / 40  |  |  | 7.0 / 23,800                  |
| HKR10*,C*                   | 45 / 52                                      | 60/60  |  |  | 9.5 / 32,400                  |
| HKR15*,C*                   | 45 / 52                                      | 60/60  | 22 / 25                                      | 30 / 30  | 14.25 / 48,600                |
| GPC1342H41*                 |  |  |  |  |                               |
| HKR05*,C*                   | 25 / 27                                      | 30/30  |  |  | 4.75 / 16,200                 |
| HKR08*,C*                   | 34 / 39                                      | 40 / 40  |  |  | 7.0 / 23,800                  |
| HKR10*,C*                   | 46 / 52                                      | 60/60  |  |  | 9.5 / 32,400                  |
| HKR15*,C*                   | 46 / 52                                      | 60/60  | 22 / 25                                      | 30 / 30  | 14.25 / 48,600                |
| HKR20*,C*                   | 46 / 52                                      | 60/60  | 43 / 49                                      | 60 / 60  | 19.5 / 66,500                 |
| GPC1348H41*                 |  |  |  |  |                               |
| HKR05*,C*                   | 25 / 28                                      | 30/30  |  |  | 4.75 / 16,200                 |
| HKR08*,C*                   | 34 / 40                                      | 40 / 40  |  |  | 7.0 / 23,800                  |
| HKR10*,C*                   | 46 / 53                                      | 60/60  |  |  | 9.5 / 32,400                  |
| HKR15*,C*                   | 46 / 52                                      | 60/60  | 22 / 25                                      | 30 / 30  | 14.25 / 48,600                |
| HKR20*,C*                   | 46 / 52                                      | 60/60  | 43 / 49                                      | 60 / 60  | 19.5 / 66,500                 |
| GPC1349H41*                 |  |  |  |  |                               |
| HKR05*,C*                   | 25 / 28                                      | 30/30  |  |  | 4.75 / 16,200                 |
| HKR08*,C*                   | 34 / 40                                      | 40 / 40  |  |  | 7.0 / 23,800                  |
| HKR10*,C*                   | 46 / 53                                      | 60/60  |  |  | 9.5 / 32,400                  |
| HKR15*,C*                   | 46 / 52                                      | 60 / 60  | 22 / 25                                      | 30 / 30  | 14.25 / 48,600                |
| HKR20*,C*                   | 46 / 52                                      | 60/60  | 43 / 49                                      | 60 / 60  | 19.5 / 66,500                 |
| GPC1360H41*                 |  |  |  |  |                               |
| HKR05*,C*                   | 26 / 30                                      | 30/30  |  |  | 4.75 / 16,200                 |
| HKR08*,C*                   | 36 / 40                                      | 40 / 40  |  |  | 7.0 / 23,800                  |
| HKR10*,C*                   | 48 / 54                                      | 60/60  |  |  | 9.5 / 32,400                  |
| HKR15*,C*                   | 48 / 54                                      | 60/60  | 22 / 25                                      | 30 / 30  | 14.25 / 48,600                |
| HKR20*,C*                   | 48 / 54                                      | 60/60  | 43 / 49                                      | 60 / 60  | 19.5 / 66,500                 |

**IMPORTANT NOTE:** A separate power supply is required for the HKR heater kit.



All wires and overcurrent protection devices are sized for use with electric heaters only and without refrigeration. If heaters are not installed with above wire size, overheating and fire could occur. See PACKAGE COOLING SPECIFICATIONS section for minimum circuit ampacity and maximum overcurrent protection during refrigeration cycle.

### **BLOWER PERFORMANCE DATA**

### GPC13[24-60]H41\*\*

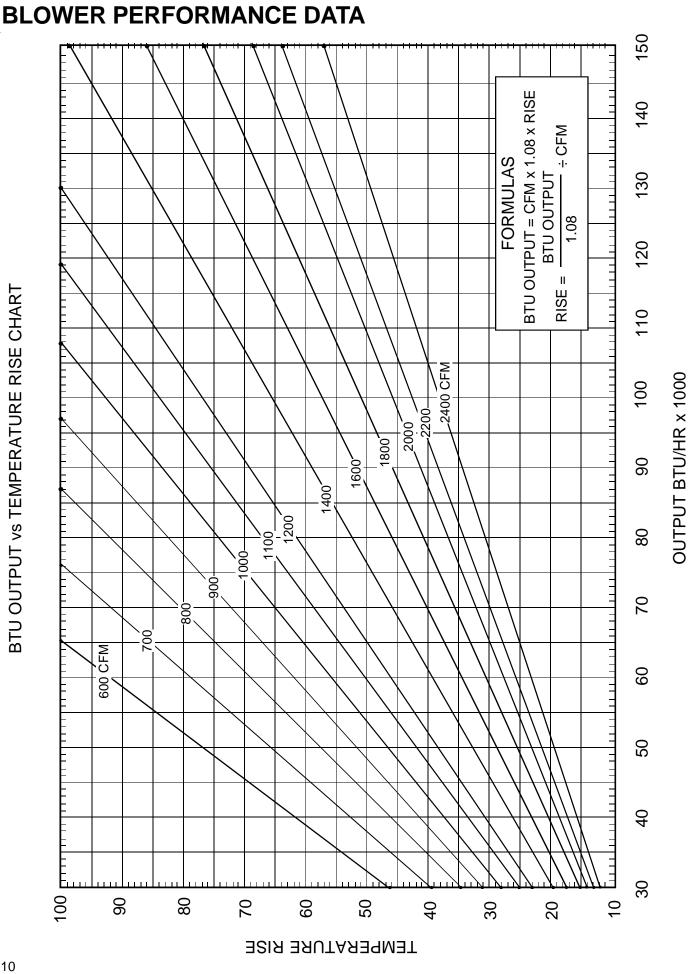
Dry Coil Data

| Model   | Crossed |     | Valta |       |       |       | E.S.P (Ir | າ. of H₂C | ))    |       |       |
|---|---------|-----|-------|-------|-------|-------|-----------|-----------|-------|-------|-------|
| Model   | Speed   |     | Volts | 0.1   | 0.2   | 0.3   | 0.4       | 0.5       | 0.6   | 0.7   | 8.0   |
| *   | Low     | 230 | CFM   | 680   | 640   | 590   | 555       | 505       | 440   | 340   | -     |
| * 14  | Low     | 230 | WATTS | 155   | 150   | 145   | 140       | 130       | 120   | 110   | -     |
| GPC1324H41**  | Med     | 230 | CFM   | 895   | 855   | 815   | 755       | 700       | 630   | 545   | 390   |
| 132   | ivied   | 230 | WATTS | 230   | 220   | 215   | 205       | 195       | 180   | 170   | 145   |
| PC  | High    | 230 | CFM   | 1,185 | 1,130 | 1,070 | 1,010     | 930       | 850   | 760   | 650   |
| U   | High    | 230 | WATTS | 350   | 340   | 325   | 310       | 295       | 280   | 265   | 245   |
| *   | Low     | 230 | CFM   | 1,150 | 1,080 | 1,025 | 975       | 925       | 845   | -     | -     |
| *<br>*  | LOW     | 230 | WATTS | 340   | 330   | 315   | 305       | 295       | 280   | -     | -     |
| MO<br>MO<br>MO<br>MO<br>MO<br>MO<br>MO<br>MO<br>MO<br>MO<br>MO<br>MO<br>MO<br>M | Med     | 230 | CFM   | 1,335 | 1,275 | 1,205 | 1,135     | 1,075     | 985   | 910   | 845   |
| GPC1330H41**  | Med     | 230 | WATTS | 425   | 415   | 400   | 385       | 370       | 350   | 330   | 310   |
| PC  | High    | 230 | CFM   | 1,435 | 1,355 | 1,290 | 1,210     | 1,130     | 1,040 | 960   | 885   |
| U   | riigii  | 230 | WATTS | 485   | 465   | 455   | 435       | 415       | 400   | 385   | 370   |
| *   | Low     | 230 | CFM   | 1,180 | 1,125 | 1,075 | 1,020     | 955       | 875   | 655   | -     |
| * 14  | LOW     | 230 | WATTS | 335   | 325   | 315   | 305       | 295       | 275   | 240   | -     |
| 198   | Med     | 230 | CFM   | 1,350 | 1,280 | 1,205 | 1,130     | 1,050     | 985   | 910   | 845   |
| GPC1336H41**  | Med     | 230 | WATTS | 435   | 420   | 405   | 385       | 375       | 350   | 330   | 310   |
| 3PC   | High    | 230 | CFM   | 1,450 | 1,370 | 1,290 | 1,205     | 1,130     | 1,040 | 960   | 885   |
| O   |         | 230 | WATTS | 495   | 480   | 465   | 440       | 425       | 400   | 385   | 370   |
| * *   | Low     | 230 | CFM   | 1,425 | 1,410 | 1,355 | 1,310     | 1,245     | 1,170 | 1,080 | -     |
| GPC1342H41**<br>GPC1349H41**  |         | 230 | WATTS | 450   | 445   | 430   | 420       | 405       | 390   | 370   | -     |
| 42H<br>49H  | Med     | 230 | CFM   | 1,620 | 1,595 | 1,545 | 1,485     | 1,425     | 1,345 | 1,250 | 1,160 |
| 7. 7. 3.  | IVICA   | 230 | WATTS | 550   | 540   | 525   | 510       | 495       | 475   | 450   | 425   |
| 3PC<br>3PC  | High    | 230 | CFM   | 1,945 | 1,935 | 1,875 | 1,800     | 1,730     | 1,635 | 1,535 | 1,440 |
| 0.0   | riigii  | 230 | WATTS | 765   | 755   | 735   | 715       | 695       | 670   | 640   | 615   |
| *   | Low     | 230 | CFM   | 1,425 | 1,410 | 1,355 | 1,310     | 1,245     | 1,170 | 1,080 | -     |
| *141  | LOW     | 200 | WATTS | 450   | 445   | 430   | 420       | 405       | 390   | 370   | -     |
| 48H   | Med     | 230 | CFM   | 1,720 | 1,660 | 1,585 | 1,520     | 1,460     | 1,365 | 1,270 | -     |
| 713   | IVICa   | 230 | WATTS | 560   | 555   | 540   | 530       | 520       | 490   | 470   | -     |
| GPC1348H41**  | High    | 230 | CFM   | 2,110 | 2,060 | 1,980 | 1,895     | 1,795     | 1,705 | 1,590 | 1,500 |
|   | 1 11911 | 200 | WATTS | 785   | 780   | 765   | 745       | 720       | 705   | 665   | 625   |
| *   | T1      | 230 | CFM   | 1,775 | 1,635 | 1,645 | 1,515     | 1,510     | 1,450 | 1,430 | 1,400 |
| <u>4</u>  | . '     |     | WATTS | 395   | 420   | 435   | 445       | 455       | 465   | 470   | 475   |
| H09   | T2/T3   | 230 | CFM   | 1,845 | 1,790 | 1,715 | 1,685     | 1,590     | 1,580 | 1,530 | 1,500 |
| 713   | 12/10   | 230 | WATTS | 490   | 505   | 520   | 535       | 550       | 560   | 570   | 575   |
| GPC1360H41**  | T4/T5   | 230 | CFM   | 2,025 | 1,900 | 1,840 | 1,780     | 1,725     | 1,650 | 1,620 | 1,580 |
|   | 14/15   | 200 | WATTS | 575   | 595   | 620   | 630       | 645       | 655   | 660   | 670   |

### NOTES:

- Data shown is Dry Coil. Wet Coil Pressure Drop is approximate.
   0.1" H<sub>2</sub>O, for 2 row indoor coil; 0.2" H<sub>2</sub>O, for 3 row indoor coil; and 0.3" H<sub>2</sub>O, for 4 row indoor coil.
   Data shown does not include filter pressure drop, approx. 0.08" H<sub>2</sub>O.
- 4. Reduce airflow by 2% for 208V operation.

# BTU OUTPUT vs TEMPERATURE RISE CHART



### PACKAGE COOLING SPECIFICATIONS

### GPC13[24-30]H41AA

| •             |   | GPC1324H41*     | GPC1330H41*      |
|---------------|---|-----------------|------------------|
| COOLING       | COOLING CAPACITY, BTUH                  | 24,000          | 28,600           |
| CAPACITY      | SEER                                    | 13.0            | 13.0             |
| UNIT          | VOLTAGE (NAMEPLATE)                     | 208-230/1/60    | 208-230/1/60     |
| ELECTRICAL    | AMPS (TOTAL)                            | 10.5            | 13.16            |
| SPECIFICATION | MINIMUM CIRCUIT AMPACITY                | 12.5            | 15.6             |
|               | MAXIMUM OVERCURRENT PROTECTION (1)      | 20              | 25               |
| COMPRESSOR    | TYPE                                    | RECIP           | RECIP            |
|               | RATED LOAD AMPS                         | 7.9             | 9.8              |
|               | LOCKED ROTOR AMPS                       | 41              | 55               |
| CONDENSER     | HORSEPOWER                              | 1/6             | 1/4              |
| FAN MOTOR     | RPM                                     | 815             | 830              |
|               | FULL LOAD AMPS                          | 1.1             | 1.5              |
|               | LOCKED ROTOR AMPS                       | 1.7             | 3.0              |
| CONDENSER FAN | BLADE DIAMETER (INCHES) / # OF BLADES   | 22 / 3          | 22 / 3           |
| CONDENSER     | FACE AREA - SQ. FT.                     | 13.4            | 13.4             |
| COIL          | NUMBER OF ROWS                          | 1               | 1                |
|               | FINS PER INCH                           | 24              | 24               |
| EVAPORATOR    | HORSEPOWER - NO. OF SPEEDS              | 1/4 - 3         | 1/3 - 3          |
| BLOWER        | FULL LOAD AMPS                          | 1.5             | 1.86             |
| MOTOR         | LOCKED ROTOR AMPS                       | 2.2             | 3.2              |
|               | MOTOR SPEED TAP - COOLING               | MEDIUM          | LOW              |
|               | RPM                                     | 1075            | 1075             |
| EVAPORATOR    | DIAMETER X WIDTH (INCHES)               | 9 x 6           | 9 x 6            |
| BLOWER        | RATED SCFM COOLING                      | 815             | 1,080            |
|               | MAX EXTERNAL STATIC PRESS ("w.c.)       | 0.5             | 0.5              |
| EVAPORATOR    | FACE AREA - SQ. FT.                     | 4.6             | 4.6              |
| COIL          | NUMBER OF ROWS                          | 3               | 3                |
|               | FINS PER INCH                           | 14              | 14               |
| GENERAL       | FILTER SIZE - SQ. FT. *                 | 20 x 20 x 1     | 20 x 25 x 1      |
| INFORMATION   | DRAIN SIZE (INCHES)                     | 3/4"            | 3/4"             |
|               | EXPANSION DEVICE                        | ORIFICE (0.059) | ORRIFICE (0.060) |
|               | REFRIGERANT CHARGE R-410A (Oz.)         | 80              | 80               |
|               | POWER SUPPLY CONDUIT KNOCKOUT SIZE (IN  | 3/4, 1, 1-1/4   | 3/4, 1, 1-1/4    |
|               | LOW VOLTAGE CONDUIT KNOCKOUT SIZE (IN.) | 1/2             | 1/2              |
|               | SHIPPING WEIGHT LBS.                    | 310             | 310              |
|               | OPERATING WEIGHT LBS.                   | 300             | 300              |

<sup>(1)</sup> Maximum Overcurrent Protection Device: **MUST** use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted. Calculated external filter size based on air velocity of 300 ft/min.

### PACKAGE COOLING SPECIFICATIONS GPC13[36-42]H41AA

| •             |  | GPC1336H41*     | GPC1342H41*     |
|---------------|--|-----------------|-----------------|
| COOLING       | COOLING CAPACITY, BTUH                   | 36,000          | 41,000          |
| CAPACITY      | SEER                                     | 13.0            | 13.0            |
| UNIT          | VOLTAGE (NAMEPLATE)                      | 208-230/1/60    | 208-230/1/60    |
| ELECTRICAL    | AMPS (TOTAL)                             | 20.06           | 22.2            |
| SPECIFICATION | MINIMUM CIRCUIT AMPACITY                 | 24.2            | 26.6            |
|               | MAXIMUM OVERCURRENT PROTECTION (1)       | 40              | 40              |
| COMPRESSOR    | TYPE                                     | SCROLL          | SCROLL          |
|               | RATED LOAD AMPS                          | 16.7            | 17.9            |
|               | LOCKED ROTOR AMPS                        | 79              | 112             |
| CONDENSER     | HORSEPOWER                               | 1/4             | 1/4             |
| FAN MOTOR     | RPM                                      | 830             | 1075            |
|               | FULL LOAD AMPS                           | 1.5             | 1.4             |
|               | LOCKED ROTOR AMPS                        | 3.0             | 2.9             |
| CONDENSER FAN | BLADE DIAMETER (INCHES) / # OF BLADES    | 22/4            | 22 / 4          |
| CONDENSER     | FACE AREA - SQ. FT.                      | 13.4            | 17.0            |
| COIL          | NUMBER OF ROWS                           | 1               | 1               |
|               | FINS PER INCH                            | 24              | 24              |
| EVAPORATOR    | HORSEPOWER - NO. OF SPEEDS               | 1/3 - 3         | 1/2 - 3         |
| BLOWER        | FULL LOAD AMPS                           | 1.86            | 2.87            |
| MOTOR         | LOCKED ROTOR AMPS                        | 3.2             | 4.9             |
|               | MOTOR SPEED TAP - COOLING                | LOW             | LOW             |
|               | RPM                                      | 1075            | 1075            |
| EVAPORATOR    | DIAMETER X WIDTH (INCHES)                | 9 x 8           | 10 x 8          |
| BLOWER        | RATED SCFM COOLING                       | 1,205           | 1,410           |
|               | MAX EXTERNAL STATIC PRESS ("w.c.)        | 0.5             | 0.5             |
| EVAPORATOR    | FACE AREA - SQ. FT.                      | 5.2             | 6.2             |
| COIL          | NUMBER OF ROWS                           | 3               | 4               |
|               | FINS PER INCH                            | 14              | 14              |
| GENERAL       | FILTER SIZE - SQ. FT. *                  | 25 x 25 x 1     | (2) 20 x 20 x 1 |
| INFORMATION   | DRAIN SIZE (INCHES)                      | 3/4"            | 3/4"            |
|               | EXPANSION DEVICE                         | ORIFICE (0.065) | ORIFICE (0.072) |
|               | REFRIGERANT CHARGE R-410A (Oz.)          | 85              | 105             |
|               | POWER SUPPLY CONDUIT KNOCKOUT SIZE (IN.) | 3/4, 1, 1-1/4   | 3/4, 1, 1-1/4   |
|               | LOW VOLTAGE CONDUIT KNOCKOUT SIZE (IN.)  | 1/2             | 1/2             |
|               | SHIPPING WEIGHT LBS.                     | 370             | 370             |
|               | OPERATING WEIGHT LBS.                    | 360             | 360             |

<sup>(1)</sup> Maximum Overcurrent Protection Device: **MUST** use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted.

<sup>\*</sup> Calculated external filter size based on air velocity of 300 ft/min.

### PACKAGE COOLING SPECIFICATIONS GPC13[48-60]H41BA

|               |  |                  | -               |
|---------------|--|------------------|-----------------|
|               |  | GPC1348H41B*     | GPC1360H41B*    |
| COOLING       | COOLING CAPACITY, BTUH                   | 45,500           | 57,500          |
| CAPACITY      | SEER                                     | 13.0             | 13.0            |
| UNIT          | VOLTAGE (NAMEPLATE)                      | 208-230/1/60     | 208-230/1/60    |
| ELECTRICAL    | AMPS (TOTAL)                             | 24.17            | 33.6            |
| SPECIFICATION | MINIMUM CIRCUIT AMPACITY                 | 29.2             | 40.2            |
|               | MAXIMUM OVERCURRENT PROTECTION (1)       | 45               | 60              |
| COMPRESSOR    | TYPE                                     | SCROLL           | SCROLL          |
|               | RATED LOAD AMPS                          | 19.9             | 26.4            |
|               | LOCKED ROTOR AMPS                        | 109              | 134             |
| CONDENSER     | HORSEPOWER                               | 1/4              | 1/4             |
| FAN MOTOR     | RPM                                      | 1075             | 1075            |
|               | FULL LOAD AMPS                           | 1.4              | 1.4             |
|               | LOCKED ROTOR AMPS                        | 2.9              | 2.9             |
| CONDENSER FAN | BLADE DIAMETER (INCHES) /# OF BLADES     | 22 / 4           | 22 / 4          |
| CONDENSER     | FACE AREA - SQ. FT.                      | 19.1             | 19.1            |
| COIL          | NUMBER OF ROWS                           | 1                | 2               |
|               | FINS PER INCH                            | 21               | 16              |
| EVAPORATOR    | HORSEPOWER - NO. OF SPEEDS               | 1/2 - 3          | 3/4 - 3         |
| BLOWER        | FULL LOAD AMPS                           | 2.87             | 5.8             |
| MOTOR         | LOCKED ROTOR AMPS                        | 4.9              | NA              |
|               | MOTOR SPEED TAP - COOLING                | MEDIUM           | T2              |
|               | RPM                                      | 1075             | 1075            |
| EVAPORATOR    | DIAMETER X WIDTH (INCHES)                | 10 x 8           | 11 x 8          |
| BLOWER        | RATED SCFM COOLING                       | 1,585            | 1,850           |
|               | MAX EXTERNAL STATIC PRESS ("w.c.)        | 0.5              | 0.5             |
| EVAPORATOR    | FACE AREA - SQ. FT.                      | 6.2              | 7.0             |
| COIL          | NUMBER OF ROWS                           | 4                | 4               |
|               | FINS PER INCH                            | 14               | 14              |
| GENERAL       | FILTER SIZE - SQ. FT. *                  | (2) 20 x 20 x 1  | (2) 20 x 25 x 1 |
| INFORMATION   | DRAIN SIZE (INCHES)                      | 3/4"             | 3/4"            |
|               | EXPANSION DEVICE                         | ORRIFICE (0.076) | ORIFICE (0.088) |
|               | REFRIGERANT CHARGE R-410A (Oz.)          | 110              | 160             |
|               | POWER SUPPLY CONDUIT KNOCKOUT SIZE (IN.) | 3/4, 1, 1-1/4    | 3/4, 1, 1-1/4   |
|               | LOW VOLTAGE CONDUIT KNOCKOUT SIZE (IN.)  | 1/2              | 1/2             |
|               | SHIPPING WEIGHT LBS.                     | 400              | 400             |
|               | OPERATING WEIGHT LBS.                    | 390              | 390             |
|               | ļ  |                  |                 |

<sup>(1)</sup> Maximum Overcurrent Protection Device: **MUST** use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted. Calculated external filter size based on air velocity of 300 ft/min.

### **GPC1324H41AA**

**COOLING OPERATION** 

**EXPANDED PERFORMANCE DATA** 

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| ubcooling, 12±3 °F @ the liquid access fitting connection AHRI 95 test con  |
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|                             |     |                                      | 71        |      | 1    |         |      |      | -     |       |      |      | 1       | -    |      | -     |       |      | ı    |         | 1    | •    | •    |       |
|-----------------------------|-----|--------------------------------------|-----------|------|------|---------|------|------|-------|-------|------|------|---------|------|------|-------|-------|------|------|---------|------|------|------|-------|
|                             | 115 |                                      | 29        | 21.9 | 0.52 | 11      | 2.32 | 10.1 | 456   | 163   | 21.2 | 0.50 | 11      | 2.30 | 10.0 | 451   | 161   | 20.2 | 0.48 | 11      | 2.26 | 6.6  | 442  | 158   |
|                             | 1   |                                      | 63        | 20.0 | 0.75 | 14      | 2.24 | 9.8  | 432   | 149   | 19.4 | 0.72 | 15      | 2.23 | 9.8  | 427   | 148   | 18.4 | 69.0 | 15      | 2.19 | 9.6  | 419  | 145   |
|                             |     |                                      | 29        | 19.3 | 0.90 | 16      | 2.20 | 9.6  | 401   | 140   | 18.7 | 0.86 | 17      | 2.18 | 9.2  | 397   | 139   | 17.8 | 0.82 | 17      | 2.14 | 9.4  | 389  | 136   |
|                             |     |                                      | 1.2       |      | 1    |         | -    | -    | -     |       |      | -    | -       | -    | -    |       |       |      | 1    | -       | 1    | -    | -    | ٠     |
|                             | 105 |                                      | <b>29</b> | 23.6 | 0.52 | 11      | 2.24 | 9.6  | 413   | 157   | 22.9 | 0.49 | 12      | 2.22 | 9.2  | 409   | 156   | 21.8 | 0.47 | 12      | 2.19 | 9.4  | 400  | 153   |
|                             | 1   |                                      | 63        | 21.5 | 0.74 | 15      | 2.17 | 9.3  | 391   | 144   | 20.9 | 0.71 | 16      | 2.15 | 9.3  | 387   | 143   | 19.9 | 0.68 | 16      | 2.12 | 9.1  | 379  | 140   |
|                             |     |                                      | 29        | 20.8 | 0.89 | 17      | 2.12 | 9.1  | 363   | 135   | 20.2 | 0.85 | 18      | 2.11 | 9.1  | 360   | 134   | 19.2 | 0.81 | 19      | 2.07 | 8.9  | 352  | 131   |
|                             |     |                                      | 71        |      | 1    | 1       | -    | -    | -     | •     | -    | -    | -       | -    | -    | -     | 1     | •    | 1    | •       | 1    | -    | -    | ٠     |
|                             | 2   | e.                                   | 29        | 24.8 | 0.50 | 12      | 2.15 | 9.1  | 292   | 150   | 24.1 | 0.47 | 12      | 2.13 | 9.0  | 363   | 149   | 22.9 | 0.45 | 12      | 2.10 | 8.9  | 356  | 146   |
| erature                     | 92  | peratur                              | ස         | 22.7 | 0.72 | 15      | 2.08 | 8.8  | 347   | 137   | 22.0 | 0.68 | 16      | 2.07 | 8.8  | 344   | 136   | 20.9 | 99.0 | 16      | 2.03 | 9.8  | 337  | 133   |
| Outdoor Ambient Temperature |     | ulb Ten                              | 26        | 21.9 | 0.86 | 18      | 2.04 | 8.7  | 323   | 129   | 21.2 | 0.82 | 18      | 2.02 | 9.8  | 320   | 128   | 20.2 | 0.79 | 19      | 1.99 | 8.5  | 313  | 125   |
| Ambie                       |     | · Wet B                              | 11        |      | -    | -       | -    | -    | -     |       | -    | -    | -       | -    | -    | -     | 1     | -    | -    | -       | -    | -    | -    |       |
| Jutdoor                     |     | ludooi                               | 29        | 25.5 | 0.48 | 12      | 2.05 | 8.6  | 322   | 143   | 24.7 | 0.46 | 12      | 2.03 | 8.5  | 319   | 141   | 23.5 | 0.44 | 12      | 2.00 | 8.4  | 312  | 139   |
| ١                           | 85  | Entering Indoor Wet Bulb Temperature | 63        | 23.2 | 0.70 | 15      | 1.98 | 8.3  | 305   | 131   | 22.6 | 99.0 | 16      | 1.97 | 8.3  | 302   | 130   | 21.4 | 0.64 | 16      | 1.94 | 8.2  | 296  | 127   |
|                             |     |                                      | 29        | 22.4 | 0.83 | 18      | 1.94 | 8.2  | 283   | 123   | 21.8 | 0.79 | 18      | 1.93 | 8.1  | 281   | 122   | 20.7 | 0.76 | 19      | 1.90 | 8.0  | 275  | 119   |
|                             |     |                                      | 71        |      | -    | -       | -    | -    | -     |       | -    | -    | -       | -    | -    | -     | -     | -    | -    | -       | -    | -    | -    |       |
|                             | 2   |                                      | 29        | 26.1 | 0.47 | 11      | 1.93 | 8.0  | 283   | 137   | 25.3 | 0.45 | 12      | 1.91 | 7.9  | 280   | 136   | 24.1 | 0.43 | 12      | 1.88 | 7.8  | 275  | 133   |
|                             | 7   |                                      | 63        | 23.8 | 0.68 | 15      | 1.87 | 7.8  | 268   | 126   | 23.1 | 9.0  | 16      | 1.85 | 7.7  | 265   | 125   | 22.0 | 0.62 | 16      | 1.83 | 9.7  | 260  | 122   |
|                             |     |                                      | 69        | 23.0 | 0.81 | 17      | 1.83 | 9.7  | 249   | 118   | 22.3 | 22.0 | 18      | 1.82 | 9.7  | 247   | 117   | 21.2 | 0.74 | 19      | 1.79 | 7.4  | 242  | 115   |
|                             |     |                                      | 11        |      | -    | -       | -    | -    | -     |       | -    | -    | -       | -    | -    | -     | -     | -    | -    | -       | -    | -    | -    | •     |
|                             | 65  |                                      | <b>29</b> | 26.7 | 0.45 | 11      | 1.79 | 7.5  | 252   | 130   | 25.9 | 0.43 | 12      | 1.78 | 7.4  | 250   | 129   | 24.6 | 0.41 | 12      | 1.75 | 7.3  | 245  | 126   |
|                             |     |                                      | 63        | 24.4 | 0.65 | 15      | 1.74 | 7.3  | 239   | 119   | 23.7 | 0.62 | 16      | 1.73 | 7.2  | 237   | 118   | 22.5 | 09.0 | 16      | 1.70 | 7.1  | 232  | 116   |
|                             |     |                                      | 29        | 23.5 | 0.78 | 17      | 1.71 | 7.1  | 222   | 112   | 22.8 | 0.75 | 18      | 1.69 | 7.1  | 220   | 111   | 21.7 | 0.72 | 19      | 1.67 | 7.0  | 215  | 109   |
|                             |     |                                      |           | ИВИ  | L/S  | Delta T | МЖ   | SAMA | AH PR | LO PR | ИВИ  | L/S  | Delta T | МЖ   | SAMA | HI PR | LO PR | MBh  | L/S  | Delta T | MЖ   | SAMA | H PR | LO PR |
|                             |     |                                      | Airflow   |      |      |         | 086  |      |       |       |      |      |         | 875  |      |       |       | 077  |      |         |      |      |      |       |
|                             |     |                                      | IDB*      |      |      |         |      |      |       |       |      |      |         | 2    |      |       |       |      |      |         |      |      |      |       |

| 23.4 | 0.45 | 10      | 2.41 | 10.6 | 480 | 175   | 22.7   | 0.42 | 10 | 2.39 | 10.5 | 476 | 173 | 21.6 | 0.41 | 10     | 2.35  | 10.3 | 466 | 170 |       |
|------|------|---------|------|------|-----|-------|--|------|----|------|------|-----|-----|------|------|--------|-------|------|-----|-----|-------|
| 21.8 | 0.69 | 14      | 2.34 | 10.2 | 461 | 164   | 21.2   | 0.66 | 15 | 2.32 | 10.1 | 456 | 163 | 20.1 | 0.63 | 15     | 2.28  | 10.0 | 447 | 159 |       |
| 20.2 | 0.91 | 17      | 2.26 | 6.6  | 436 | 151   | 19.6   | 0.87 | 18 | 2.24 | 8.6  | 432 | 149 | 18.6 | 0.84 | 19     | 2.21  | 2.6  | 423 | 146 |       |
| 19.6 | 1.00 | 18      | 2.21 | 2.6  | 405 | 141   | 19.0   | 0.97 | 19 | 2.20 | 9.6  | 401 | 140 | 18.1 | 0.93 | 20     | 2.16  | 6.5  | 393 | 137 |       |
| 25.3 | 0.44 | 10      | 2.33 | 10.0 | 435 | 169   | 24.5   | 0.42 | 11 | 2.31 | 6.6  | 430 | 168 | 23.3 | 0.40 | 11     | 2.28  | 8.6  | 422 | 164 |       |
| 23.6 | 0.69 | 15      | 2.26 | 9.7  | 417 | 159   | 22.9   | 0.65 | 16 | 2.24 | 9.6  | 413 | 157 | 21.7 | 0.63 | 16     | 2.20  | 9.2  | 404 | 154 |       |
| 21.8 | 0.91 | 19      | 2.19 | 9.4  | 395 | 146   | 21.1   | 0.86 | 19 | 2.17 | 9.3  | 391 | 144 | 20.1 | 0.83 | 20     | 2.14  | 9.2  | 383 | 141 |       |
| 21.1 | 1.00 | 20      | 2.14 | 9.5  | 367 | 137   | 20.5   | 0.97 | 21 | 2.12 | 9.1  | 363 | 135 | 19.5 | 0.93 | 22     | 2.09  | 9.0  | 326 | 133 |       |
| 26.6 | 0.43 | 11      | 224  | 9.5  | 386 | 161   | 25.8   | 0.41 | 11 | 222  | 9.4  | 383 | 160 | 24.5 | 0.39 | 11     | 2.18  | 9.3  | 375 | 157 |       |
| 24.8 | 99.0 | 15      | 2.17 | 9.5  | 371 | 152   | 24.1   | 0.63 | 16 | 2.15 | 9.1  | 367 | 150 | 22.9 | 09.0 | 16     | 2.12  | 9.0  | 360 | 147 |       |
| 22.9 | 0.87 | 19      | 2.10 | 83   | 351 | 139   | 22.2   | 0.83 | 19 | 2.08 | 8.8  | 347 | 137 | 21.1 | 0.80 | 20     | 2.05  | 8.7  | 340 | 135 |       |
| 22.2 | 0.98 | 20      | 2.06 | 8.7  | 326 | 131   | 21.6   | 0.93 | 21 | 2.04 | 8.7  | 323 | 129 | 20.5 | 0.89 | 22     | 2.01  | 8.5  | 316 | 127 |       |
| 27.3 | 0.41 | 11      | 2.13 | 8.9  | 339 | 154   | 26.5   | 0.39 | 11 | 2.11 | 8.9  | 336 | 152 | 25.2 | 0.38 | 11     | 2.08  | 8.7  | 329 | 149 | (4)   |
| 25.4 | 0.64 | 15      | 2.06 | 8.7  | 325 | 144   | 24.7   | 0.61 | 16 | 2.05 | 8.6  | 322 | 143 | 23.4 | 0.59 | 16     | 2.01  | 8.5  | 316 | 140 | į     |
| 23.5 | 0.85 | 19      | 2.00 | 8.4  | 308 | 132   | 22.8   | 0.81 | 19 | 1.98 | 8.3  | 302 | 131 | 21.7 | 0.77 | 20     | 1.95  | 8.2  | 299 | 128 |       |
| 22.8 | 0.95 | 50      | 1.96 | 8.2  | 286 | 124   | 22.1   | 06:0 | 21 | 1.94 | 8.2  | 283 | 123 | 21.0 | 98.0 | 72     | 1.91  | 8.0  | 278 | 121 | ŀ     |
| 27.9 | 0.40 | 11      | 2.00 | 8.3  | 298 | 148   | 27.1   | 0.38 | 11 | 1.99 | 8.2  | 295 | 146 | 25.8 | 0.37 | 11     | 1.96  | 8.1  | 289 | 143 | Į     |
| 26.0 | 0.62 | 15      | 1.94 | 8.1  | 286 | 139   | 25.3   | 09.0 | 16 | 1.93 | 8.0  | 283 | 137 | 24.0 | 0.57 | 16     | 1.90  | 6.7  | 278 | 135 |       |
| 24.1 | 0.83 | 19      | 1.88 | 7.8  | 271 | 127   | 23.4   | 0.79 | 19 | 1.87 | 7.8  | 268 | 126 | 22.2 | 0.75 | 20     | 1.84  | 7.7  | 263 | 123 |       |
| 23.4 | 0.92 | 20      | 1.85 | 2.7  | 252 | 120   | 22.7   | 0.88 | 21 | 1.83 | 9.7  | 249 | 118 | 21.5 | 0.84 | 22     | 1.80  | 2.7  | 244 | 116 |       |
| 28.6 | 0.39 | 10      | 1.86 | 7.8  | 266 | 140   | 27.8   | 0.37 | 11 | 1.85 | 7.7  | 263 | 139 | 26.4 | 0.35 | 11     | 1.82  | 9.7  | 258 | 136 | l     |
| 26.7 | 09.0 | 15      | 1.81 | 7.5  | 255 | 131   | 25.9   | 0.57 | 16 | 1.79 | 7.5  | 252 | 130 | 24.6 | 0.55 | 16     | 1.77  | 7.4  | 247 | 128 |       |
| 24.6 | 0.80 | 18      | 1.75 | 7.3  | 241 | 120   | 23.9   | 0.76 | 19 | 1.74 | 7.3  | 239 | 119 | 22.7 | 0.73 | 20     | 1.71  | 7.2  | 234 | 117 | -     |
| 23.9 | 0.89 | 20      | 1.72 | 7.2  | 224 | 113   | 23.2   | 0.85 | 21 | 1.71 | 7.1  | 222 | 112 | 22.1 | 0.81 | 21     | 1.68  | 0.7  | 218 | 110 | -     |
| MBh  | S/T  | Delta T | KW   | AMPS | 표   | LO PR | MBh ST Detta T AMPS HI MBh LO PR LO PR MBh ST Detta T KW AMPS HI MPS |      |    |      |      |     |     |      |      | H<br>K | LO PR |      |     |     |       |
|      |      |         | 086  |      |     |       |  | 875  |    |      |      |     |     |      |      |        | 0//   |      |     |     | L C C |
|      |      |         |      |      |     | •     |  |      |    | 75   |      |     | •   |      |      |        |       |      |     |     |       |

NOTE: Shaded area is ACCA (TVA) conditions High and low pressures are measured at the liquid and sucton access fittings. \* IDB: Entering Indoor Dry Bulb Temperature

MODEL: GPC1324H41A\*

### **GPC1324H41AA**

### **COOLING OPERATION**

## **EXPANDED PERFORMANCE DATA**

MODEL: GPC1324H41A\*

Design Subcooling, 12±3 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 8±3 °F @ the compressor suction access fitting connection.

| Mile      |   |         |         |      |      |           |      |      |      |      |      |      |         | Outdoo  | r Ambio | ent Tem  | Outdoor Ambient Temperature |      |      |      |      |      |      |      |     |    |      |
|--|---|---------|---------|------|------|-----------|------|------|------|------|------|------|---------|---------|---------|----------|-----------------------------|------|------|------|------|------|------|------|-----|----|------|
| MBH  |   |         |         |      | 9    | 5         |      |      | 7    | 5    |      |      | 8       | 2       |         |          | 6                           | 5    |      |      | 10,  | 2    |      |      | 115 |    |      |
| MRN   24, 24, 24, 24, 24, 24, 24, 24, 24, 24,  |   |         |         |      |      |           |      |      |      |      |      |      | Enterin | g Indoc | r Wet E | 3ulb Ter | nperatui                    | e.   |      |      |      |      |      |      |     |    |      |
| WBH         24.3         28.6         28.4         28.6         28.4         28.6         28.4         28.6         28.4         28.6         28.4         28.6         28.4         28.6         28.4         28.6         28.4         28.6         28.7         28.6         28.7         28.6         28.7         28.6         28.7         1.00         0.92         0.75         0.86         1.00   | - | Airflow |         | 29   | 63   | <b>29</b> | 71   | 29   | 63   | 29   | 71   | 29   | 63      | 29      | 71      | 29       | ස                           | 67   | 71   | 29   | 63   | 29   | 71   | 29   | 63  | 29 | 71   |
| ST         1,00         0.92         0.75         0.56         1,00         0.95         0.77         0.59         1,00         0.09         0.05         0.75         0  |   |         | MBh     | 24.3 | 24.9 | 26.6      | 28.4 | 23.8 | 24.3 | 26.0 | 27.7 | 23.2 | 23.7    | 25.3    | 27.1    | 22.6     | 23.1                        | 24.7 | 26.4 | 21.5 | 22.0 |      |      | 6    |     |    | 23.3 |
| KW         1.73         1.71         1.82         1.84         1.85         1.84         1.85         1.87         1.85         1.87         1  |   |         | S/T     | 1.00 | 0.92 | 0.75      |      | 1.00 | 0.95 | 0.77 | 0.58 | 1.00 | 1.00    | 0.79    | 0.59    | 1.00     | 1.00                        | 0.82 | 0.61 | 1.00 | 1.00 | 0.85 | 0.63 |      |     |    | 0.64 |
| KW         1.73         1.74         1.86         1.86         1.86         1.90         1.96         2.02         2.15         2.17         2.19         2.02         2.15         2.17         2.19         2.02         2.16         2.10         2.10         2.03         3.10         3.8         3.10         3.8         3.10         3.8         3.0         3.8         3.0 <th></th> <td></td> <td>Delta T</td> <td>23</td> <td>21</td> <td>19</td> <td>15</td> <td>22</td> <td>22</td> <td>19</td> <td>15</td> <td>22</td> <td>22</td> <td>19</td> <td>15</td> <td>21</td> <td>22</td> <td>19</td> <td>15</td> <td>20</td> <td>21</td> <td>19</td> <td>15</td> <td>19</td> <td>19</td> <td>17</td> <td>14</td>   |   |         | Delta T | 23   | 21   | 19        | 15   | 22   | 22   | 19   | 15   | 22   | 22      | 19      | 15      | 21       | 22                          | 19   | 15   | 20   | 21   | 19   | 15   | 19   | 19  | 17 | 14   |
| AMPS         7.2         7.4         7.6         7.9         8.1         8.4         8.5         8.7         9.9         8.4         9.3         9.6         9.3         9.6         9.3         9.6         9.3         9.6         9.7         9.9         9.1         7.7         7.9         8.1         8.4         8.5         8.7         9.9         9.7         9.9         9.7         9.9         9.7         9.9         9.7         1.9         1.2         1.7         1.0         1.0         1.0         9.3         9.6         9.7         9.9         9.0         9.7         9.9         9.0         9.7         9.9         9.0 <th></th> <td>086</td> <td>KW</td> <td>1.73</td> <td>1.77</td> <td>1.82</td> <td>1.88</td> <td>1.86</td> <td>1.90</td> <td>1.96</td> <td>2.02</td> <td>1.97</td> <td>2.02</td> <td>2.08</td> <td>2.15</td> <td>2.07</td> <td>2.12</td> <td>2.19</td> <td>226</td> <td>2.16</td> <td>2.21</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2.43</td>   |   | 086     | KW      | 1.73 | 1.77 | 1.82      | 1.88 | 1.86 | 1.90 | 1.96 | 2.02 | 1.97 | 2.02    | 2.08    | 2.15    | 2.07     | 2.12                        | 2.19 | 226  | 2.16 | 2.21 |      |      |      |     |    | 2.43 |
| HIPR 227 244 257 269 254 274 289 301 289 311 329 343 329 354 374 369 371 399 421 439 420 441 465 161 LOPR HIPR 236 241 258 241 258 242 257 269 254 252 25 25 25 25 25 25 25 25 25 25 25 25   |   |         | AMPS    | 7.2  | 7.4  | 9.7       | 7.8  | 7.7  | 7.9  | 8.1  | 8.4  | 8.3  | 8.5     | 8.7     | 9.0     | 8.8      | 9.0                         | 9.3  | 9.6  | 9.3  | 9.5  | 9.8  |      |      |     |    | 10.7 |
| LOPR         114         125         134         121         136         136         146         155         132         140         153         141         121         128         140         126         135         146         156         132         140         153         140         150         130         140         140         150         130         140         140         140         150         150         213         226         210         212         224         150         213         220         221         22         22         100         0.99         0.78         150         170         0.90         100 </td <th></th> <td></td> <td>H R</td> <td>227</td> <td>244</td> <td>257</td> <td>269</td> <td>254</td> <td>274</td> <td>289</td> <td>301</td> <td>289</td> <td>311</td> <td>329</td> <td>343</td> <td>329</td> <td>354</td> <td>374</td> <td>330</td> <td>371</td> <td>333</td> <td>421</td> <td></td> <td></td> <td></td> <td></td> <td>485</td>  |   |         | H R     | 227  | 244  | 257       | 269  | 254  | 274  | 289  | 301  | 289  | 311     | 329     | 343     | 329      | 354                         | 374  | 330  | 371  | 333  | 421  |      |      |     |    | 485  |
| WIBH         23.6         24.1         25.6         25.2         24.6         26.3         22.0         22.6         24.6         26.3         22.0         22.6         24.6         26.3         22.0         22.6         24.6         26.3         22.0         22.6         24.6         26.3         1.00         20.9         21.0         22.0         22.0         21.0         22.0         22.0         21.0         22.0         22.0         21.0         22.0         22.0         21.0         22.0         22.0         21.0         22.0         22.0         21.0         22.0 <th< td=""><th></th><td></td><td>LO PR</td><td>114</td><td>122</td><td>133</td><td>141</td><td>121</td><td>128</td><td>140</td><td>149</td><td>126</td><td>134</td><td>146</td><td>155</td><td>132</td><td>140</td><td>153</td><td>163</td><td>138</td><td>147</td><td>160</td><td>Н</td><td></td><td>152</td><td></td><td>177</td></th<>  |   |         | LO PR   | 114  | 122  | 133       | 141  | 121  | 128  | 140  | 149  | 126  | 134     | 146     | 155     | 132      | 140                         | 153  | 163  | 138  | 147  | 160  | Н    |      | 152 |    | 177  |
| ST         0.38         0.87         0.87         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.78         0.79         0.39         0.79         0  |   |         | MBh     | 23.6 | 24.1 | 25.8      |      | -    | 23.6 | 25.2 | 26.9 | 22.5 | 23.0    | 24.6    | 26.3    | 22.0     | 22.5                        | 24.0 | 25.7 | 20.9 | 21.3 | 22.8 |      | 19.3 |     |    | 22.6 |
| AMPS         7.2         1.5         1.8 <th></th> <td></td> <td>S/T</td> <td>0.93</td> <td>0.87</td> <td>0.71</td> <td>0.53</td> <td>0.97</td> <td>0.91</td> <td>0.74</td> <td>0.55</td> <td>0.99</td> <td>0.93</td> <td>92.0</td> <td>0.56</td> <td>1.00</td> <td>96.0</td> <td>0.78</td> <td>0.58</td> <td>1.00</td> <td>0.39</td> <td></td> <td></td> <td>1.00</td> <td></td> <td></td> <td>0.61</td>  |   |         | S/T     | 0.93 | 0.87 | 0.71      | 0.53 | 0.97 | 0.91 | 0.74 | 0.55 | 0.99 | 0.93    | 92.0    | 0.56    | 1.00     | 96.0                        | 0.78 | 0.58 | 1.00 | 0.39 |      |      | 1.00 |     |    | 0.61 |
| KW         1.72         1.75         1.81         1.86         1.89         1.99         2.00         2.06         2.13         2.04         2.17         2.24         2.14         2.19         2.86         2.32         2.20         2.95         3.7         3.80         3.  |   |         | Delta T | 23   | 22   | 19        | 15   | 23   | 22   | 20   | 16   | 23   | 22      | 20      | 16      | 23       | 23                          | 20   | 16   | 22   | 22   | 19   | 15   | 20   | 21  | 18 | 14   |
| AMPS         7.2         7.3         7.5         7.8         8.1         8.2         8.4         8.7         8.9         8.7         8.9         9.7         9.9         9.7         9.0         9.7         9.0 <th></th> <td>875</td> <td>ΚM</td> <td>1.72</td> <td>1.75</td> <td>1.81</td> <td>1.86</td> <td>1.85</td> <td>1.88</td> <td>1.94</td> <td>2.00</td> <td>1.96</td> <td>2.00</td> <td>2.06</td> <td>2.13</td> <td>2.06</td> <td>2.10</td> <td>2.17</td> <td>224</td> <td>2.14</td> <td>2.19</td> <td></td> <td></td> <td>21</td> <td></td> <td></td> <td>2.41</td>   |   | 875     | ΚM      | 1.72 | 1.75 | 1.81      | 1.86 | 1.85 | 1.88 | 1.94 | 2.00 | 1.96 | 2.00    | 2.06    | 2.13    | 2.06     | 2.10                        | 2.17 | 224  | 2.14 | 2.19 |      |      | 21   |     |    | 2.41 |
| HIPR 244 255 266 262 271 286 289 286 308 325 339 326 361 47 48 461 48 484 484 484 484 484 484 484 484 484  |   |         | AMPS    | 7.2  | 7.3  | 7.5       | 7.8  | 7.7  | 7.8  | 8.1  | 8.3  | 8.2  | 8.4     | 8.7     | 8.9     | 8.7      | 8.9                         | 9.2  | 9.5  | 9.2  | 9.4  | 9.7  | 10.0 | 9.7  | 6   |    | 10.6 |
| MBh   225   22,9   24,5   26,2   24,6   22,4   23,9   25,6   24   |   |         | HI PR   | 224  | 241  | 255       | 266  | 252  | 271  | 286  | 298  | 286  | 308     | 325     | 339     | 326      | 351                         | 371  | 386  | 367  | 395  | 417  |      |      |     |    | 480  |
| MBh         2.5         2.9         24.5         26.2         1.9         22.4         21.9         22.4         21.9         22.4         21.9         22.4         21.9         22.4         21.9         22.4         21.9         22.4         21.9         22.4         1.05         22.4         1.05         22.4         1.05         22.4         22.5         22.4         22.4         22.4         22.2         22.4         22.4         22.4         22.5         22.4         22.5         22.4         22.5         22.4         22.5         22.4         22.5         22.4         22.5         22.4         22.5         22.4         22.5         22.4         22.5         22.4         22.5         22.4         22.5         22.  |   |         | LO PR   | 113  | 120  | 131       | 140  | 120  | 127  | 139  | 148  | 124  | 132     | 144     | 154     | 131      | 139                         | 152  | 161  | 137  | 146  | 159  | 169  | 141  | 151 |    | 175  |
| ST 0.89 0.84 0.68 0.51 0.92 0.87 0.71 0.53 0.95 0.89 0.72 0.54 0.99 0.72 0.54 0.99 0.95 0.75 0.56 0.90 0.75 0.56 0.90 0.75 0.56 0.90 0.75 0.59 0.95 0.75 0.56 0.90 0.75 0.56 0.90 0.75 0.56 0.90 0.75 0.90 0.7 |   |         | MBh     | 22.5 | 22.9 | 24.5      |      | 21.9 | 22.4 | 23.9 | 25.6 | 21.4 | 21.9    | 23.4    | 25.0    | 20.9     | 21.3                        | 22.8 | 24.4 | 19.8 | 20.3 |      |      |      |     |    | 21.4 |
| DeltaT         24         23         20         16         24         23         20         16         24         23         20         16         24         23         20         16         24         23         20         16         24         23         20         16         24         23         20         16         24         23         20         16         24         23         20         16         24         23         20         16         20 <th< td=""><th></th><td></td><td>S/T</td><td>0.89</td><td>0.84</td><td>0.68</td><td>0.51</td><td>0.92</td><td>0.87</td><td>0.71</td><td>0.53</td><td>0.95</td><td>0.89</td><td>0.72</td><td>0.54</td><td>0.98</td><td>0.92</td><td>0.75</td><td>0.56</td><td>1.02</td><td>0.95</td><td></td><td>0.58</td><td></td><td></td><td></td><td>0.58</td></th<>   |   |         | S/T     | 0.89 | 0.84 | 0.68      | 0.51 | 0.92 | 0.87 | 0.71 | 0.53 | 0.95 | 0.89    | 0.72    | 0.54    | 0.98     | 0.92                        | 0.75 | 0.56 | 1.02 | 0.95 |      | 0.58 |      |     |    | 0.58 |
| KW         1.69         1.73         1.78         1.82         1.85         1.91         1.97         1.93         1.97         2.03         2.09         2.07         2.13         2.01         2.15         2.22         2.29         2.18         2.23         2.30           AMPS         7.1         7.2         7.4         7.6         7.7         7.9         8.2         8.1         8.8         8.6         8.8         9.0         9.3         9.5         9.9         9.5         9.8         10.0           HI PR         220         237         250         261         247         265         280         282         281         333         320         344         363         379         360         387         409         426         397         457         451         451         451         128         136         149         158         134         149         158         134         149         158         148         161         18         161         18         162         18         14         151         158         136         148         18         16         18         18         18         18         18         18   |   |         | Delta T | 24   | 23   | 20        | 16   | 24   | 23   | 20   | 16   | 24   | 23      | 20      | 16      | 24       | 23                          | 20   | 16   | 24   | 23   | 20   | 16   | 22   | 22  | 19 | 15   |
| 7.1         7.2         7.4         7.6         7.6         7.7         7.9         8.2         8.1         8.3         8.6         8.8         9.0         9.3         9.1         9.3         9.5         9.9         9.5         9.8         10.0           220         237         250         261         247         265         280         281         302         33         320         344         363         379         409         426         427         451           111         118         129         137         145         122         130         141         151         128         136         149         158         134         143         156         166         139         148         161  |   | 240     | ΚM      | 1.69 | 1.73 | 1.78      | 1.83 | 1.82 | 1.85 | 1.91 | 1.97 | 1.93 | 1.97    | 2.03    | 2.09    | 2.02     | 2.07                        | 2.13 | 220  | 2.11 | 2.15 |      |      |      |     |    | 2.37 |
| 220         237         250         261         247         265         280         282         281         302         333         320         344         363         379         360         387         497         451         451         451         122         130         141         151         128         136         149         158         134         143         156         166         139         148         161  |   |         | AMPS    | 7.1  | 7.2  | 7.4       | 7.6  | 2.6  | 7.7  | 7.9  | 8.2  | 8.1  | 8.3     | 8.5     | 8.8     | 9.8      | 8.8                         | 9.0  | 9.3  | 9.1  | 9.3  | 9.5  | 6.6  | 2    |     |    | 10.4 |
| 111 118 129 137   117 125 136 145   122 130 141 151   128 136 149 158   134 143 156 166   139 148 161  |   |         | H PR    | 220  | 237  | 250       | 261  | 247  | 265  | 280  | 292  | 281  | 302     | 319     | 333     | 320      | 344                         | 363  | 379  | 360  | 387  | 409  | -    |      |     |    | 47.1 |
|  |   |         | LO PR   | 111  | 118  | 129       | 137  | 117  | 125  | 136  | 145  | 122  | 130     | 141     | 151     | 128      | 136                         | 149  | 158  | 134  | 143  | 156  | 166  | 139  | 148 |    | 172  |

|        |        |         |           |      |       |       |          |        | •       | •        |       | •     |       |          | ••     | •       | •        |       | •     | • `   | •   |  |
|--------|--------|---------|-----------|------|-------|-------|----------|--------|---------|----------|-------|-------|-------|----------|--------|---------|----------|-------|-------|-------|---|--|
| 23.1   | 0.83   | 18      | 2.45      | 10.7 | 490   | 179   | 22.4     | 0.79   | 19      | 2.43     | 10.7  | 485   | 177   | 21.3     | 0.76   | 19      | 2.39     | 10.5  | 475   | 173   |   |  |
| 21.6   | 1.00   | 20      | 2.38      | 10.4 | 470   | 168   | 21.0     | 0.98   | 22      | 2.36     | 10.3  | 465   | 166   | 20.0     | 0.94   | 22      | 2.32     | 10.1  | 456   | 163   |   |  |
| 20.7   | 1.00   | 19      | 2.30      | 10.1 | 445   | 154   | 20.1     | 1.00   | 21      | 2.28     | 10.0  | 441   | 152   | 19.1     | 1.00   | 23      | 2.24     | 8.6   | 432   | 149   |   |  |
| 20.3   | 1.00   | 19      | 2.25      | 6.6  | 413   | 144   | 19.7     | 1.00   | 21      | 2.23     | 8.6   | 409   | 143   | 18.7     | 1.00   | 22      | 2.20     | 9.6   | 401   | 140   |   |  |
| 24.9   | 0.82   | 19      | 2.37      | 10.2 | 444   | 173   | 24.2     | 0.79   | 20      | 2.35     | 10.1  | 439   | 171   | 23.0     | 0.75   | 21      | 2.31     | 6.6   | 430   | 167   |   |  |
| 23.4   | 1.00   | 22      | 2.30      | 6.6  | 425   | 162   | 22.7     | 0.97   | 23      | 2.28     | 8.6   | 421   | 160   | 21.6     | 0.93   | 24      | 2.24     | 9.6   | 413   | 157   |   | otors)   |
| 22.3   | 1.00   | 21      | 2.22      | 9.6  | 403   | 148   | 21.7     | 1.00   | 23      | 2.21     | 9.5   | 336   | 147   | 20.6     | 1.00   | 25      | 2.17     | 9.3   | 391   | 144   |   | r fan m  |
| 21.9   | 1.00   | 21      | 2.18      | 9.4  | 374   | 140   | 21.2     | 1.00   | 22      | 2.16     | 9.3   | 371   | 138   | 20.2     | 1.00   | 24      | 2.12     | 9.1   | 363   | 135   |   | andense  |
| 26.2   | 0.79   | 20      | 228       | 9.6  | 394   | 165   | 25.5     | 92.0   | 20      | 226      | 9.6   | 330   | 163   | 24.2     | 0.72   | 21      | 222      | 9.4   | 383   | 160   |   | ator + co  |
| 24.6   | 0.98   | 23      | 2.20      | 9.3  | 378   | 155   | 23.9     | 0.93   | 23      | 2.19     | 9.3   | 374   | 153   | 22.7     | 0.89   | 24      | 2.15     | 9.1   | 367   | 150   | power                                       | evapora  |
| 23.5   | 1.00   | 22      | 2.14      | 9.1  | 358   | 142   | 22.8     | 1.00   | 24      | 2.12     | 0.6   | 354   | 140   | 21.7     | 0.99   | 26      | 2.08     | 8.8   | 347   | 137   | KW = Total system power                     | AMPS: Unit amps (comp.+ evaporator + condenser fan motors)           |
| 23.0   | 1.00   | 22      | 2.09      | 8.9  | 333   | 133   | 22.4     | 1.00   | 24      | 2.07     | 8.8   | 329   | 132   | 21.2     | 1.00 ( | 25      | 2.04     | 8.7   | 323   | 129   | / = Total                                   | nit amps   |
| 26.9   | 0.77   | 19      | 2.16 2    | 9.1  | 346   | 157 1 | 26.1   2 | 0.73   | 20      | 2.15   2 | 9.0   | 343   | 155   | 24.8   2 | 0.70   | 21      | 2.11   2 | 8.9   | 336   | 152   | ₹   | MPS: Ur  |
| 25.2 2 | 0.95 0 | 22      | 2.10 2    | 8.8  | 332   | 147 1 | 24.5 2   | 0.90   | 23      | 2.08 2   | 8.7   | 329   | 146 1 | 23.3     | 0.87 0 | 24      | 2.05 2   | 8.6   | 322   | 143 1 | ein:  |  |
| 24.1 2 | 1.00 0 | 23      | 2.03 2    | 8.5  | 314   | 135 1 | 23.4 2   | 1.00 0 | 25      | 2.02     | 8.5   | 311   | 134 1 | 22.2     | 0.96 0 | 25      | 1.98 2   | 8.3   | 305   | 131 1 | ng Indoor Dry Bulb Temperature              |  |
| 23.6 2 | 1.00 1 | 22      | 1.99 2    | 8.4  | 292   | 127 1 | 22.9 2   | 1.00 1 | 24      | 1.97 2   | 8.3   | 289   | 126 1 | 21.8 2   | 0.99 0 | 26      | 1.94 1   | 8.2   | 283   | 123 1 | Bulb Te                                     |  |
| 27.6 2 | 0.75   | 19      | 2.04      | 8.4  | 304   | 151 1 | 26.8   2 | 0.71   | 20      | 2.02     | 8.4   | 301 2 | 149 1 | 25.4   2 | 0.68   | 21      | .99      | 8.2   | 295   | 146   | oor Dry                                     |  |
| 25.8 2 | 0.92   | 22      | 1.97      | 8.2  | 292   | 142   | 25.1     | 0.88   |         |          |       | 289   | 140   | 8.9      | 0.84 ( | 24      | 1.93 1   |       | 283   | 137   | ring Ind                                    | _  |
| 24.7 2 | 1.00 C | 23      | 1.91      | 8.0  | 276   | 130 1 | 23.9 2   | 0.98   | 25      | 1.90 1   | 3 6.7 | 274 2 | 128 1 | 22.7 23  | 0.94 C | 25      | 1.87 1   | 8.7   | 268 2 | 126 1 | IDB: Enteri                                 | access   |
| 24.2   | 1.00 1 | 23      | 1.87 1    | 7.8  | 257   | 122   | 23.5 2   | 1.00 C | 25      | 1.86 1   | . 2.2 | 254   | 121   | 22.3     | 0.97 C | 26      | 1.83 1   | . 9.7 | 249 2 | 118 , | Ω   | suction  |
| 282 2  | 0.72   | 19      | 1.89      | 6.7  | 271   | 143   | 27.4     | 0.69   | 20      | 1.88     | 8.7   | 269   | 141   | 26.0     | 0.66   | 21      | 1.85     | 7.7   | 263   | 139   |   | hid and  |
| 26.4   | 0.89   | 22      | 1.84      | 9.7  | 260   | 134   | 25.7     | 0.85 ( | 23      | 1.82     | 9.7   | 257   | 133   | 24.4     | 0.81 ( | 24      | 1.79     | 7.5   | 252   | 130   | nditions                                    | t the liqu   |
| 25.2   | 0.99 ( | 23      | 1.78      | 7.4  | 246 ; | 123   | 24.5     | 0.94 ( | 24      | 1.77     | 7.4   | 244   | 122   | 23.3     | 0.90   | 25      | 1.74     | 7.3   | 239   | . 611 | iting Co                                    | suredat  |
| 24.8   | 1.00 ( | 23      | 1.74      | 7.3  | 229   | 115   | 24.0     | 0.98   | 25      | 1.73     | 7.2   | . 227 | 114   | 22.8     | 0.94 ( | 26      | 1.71     | 7.1   | 222   | 112   | AHRI Ra                                     | are mea  |
| MBh    | S/T    | Delta T | KW        | AMPS | HI PR | LO PR | MBh      | S/T    | Delta T | KW       | AMPS  | HI PR | LO PR | MBh      | S/T    | Delta T | KW       | AMPS  | H R   | LO PR | NOTE: Shaded area is AHRI Rating Conditions | High and low pressures are measured at the liquid and suction access |
|        |        |         | Q         |      |       |       |          |        |         | 2        |       |       |       |          |        |         | 0        |       |       |       | E: Shad                                     | and low  |
|        |        |         | 986<br>80 |      |       |       |          |        |         | 875      |       |       |       |          |        |         | 240      |       |       |       | * NOT                                       | High   |
|        |        |         |           |      |       |       |          |        |         | 82       |       |       |       |          |        |         |          |       |       |       |   |  |

### **GPC1330H41AA**

### **COOLING OPERATION**

EXPANDED PERFORMANCE DATA

Design Subcooling, 12±3 🕆 @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 8±3 °F @ the compressor suction access fitting connection.

|          | _                   | _   |  |   |  |   |   |   |   |   | _   |   |   |  |  |   |   |   |  |   |   |   |  |
|----------|---------------------|---|--|---|--|---|---|---|---|---|---|---|---|--|--|---|---|---|--|---|---|---|--|
|          |                     | 1.1   |  |   | ١.   |   |   | ٠   |   |   | ١.  |   |   |  |  | ٠   | •   | ٠   |  |   |   | ٠   | •  |
| 15       |                     | 29  | 26.2   | 0.53  | 11   | 2.79  | 12.4  | 475   | 162   | 25.5  | 0.50  | 11  | 2.77  | 12.3   | 471  | 160   | 23.5  | 0.48  | 11   | 2.70  | 12.0  | 457   | 155  |
| ļ        |                     | 63  | 23.9   | 92.0  | 14   | 2.70  | 12.0  | 450   | 148   | 23.2  | 0.72  | 15  | 2.68  | 11.9   | 446  | 147   | 21.5  | 0.70  | 15   | 2.62  | 11.6  | 432   | 142  |
|          |                     | 59  | 23.1   | 0.91  | 16   | 2.65  | 11.8  | 418   | 139   | 22.4  | 0.87  | 17  | 2.63  | 11.7   | 414  | 138   | 20.7  | 0.83  | 17   | 2.56  | 11.4  | 402   | 134  |
|          |                     | 71  |  |   |  | -   | -   |   |   |   |   |   |   | -  |  |   |   |   |  |   | -   | -   |  |
| 5        |                     | 29  | 28.3   | 0.52  | 11   | 2.70  | 11.8  | 430   | 156   | 27.5  | 0.50  | 12  | 2.68  | 11.7   | 426  | 155   | 25.4  | 0.48  | 12   | 2.61  | 11.4  | 413   | 150  |
| 19       |                     | છ   | 25.8   | 0.75  | 15   | 2.62  | 11.4  | 407   | 143   | 25.1  | 0.72  | 16  | 2.60  | 11.3   | 403  | 142   | 23.2  | 69.0  | 16   | 2.53  | 11.1  | 391   | 137  |
|          |                     | 29  | 24.9   | 06.0  | 17   | 2.56  | 11.2  | 379   | 135   | 24.2  | 98.0  | 18  | 2.54  | 11.1   | 375  | 133   | 22.3  | 0.83  | 18   | 2.48  | 10.9  | 364   | 129  |
|          |                     | 71  |  | -   |  | -   | -   |   |   |   |   | -   | 1   | -  | -  |   |   |   | -  | -   | -   | -   | -  |
|          | е                   | 29  | 29.8   | 0.50  | 12   | 2.59  | 11.1  | 382   | 149   | 28.9  | 0.48  | 12  | 2.57  | 11.1   | 379  | 148   | 26.7  | 0.46  | 12   | 2.51  | 10.8  | 292   | 143  |
| 6        | mperatur            | 63  | 27.2   | 0.72  | 15   | 2.52  | 10.8  | 362   | 137   | 26.4  | 0.69  | 16  | 2.50  | 10.8   | 328  | 135   | 24.4  | 0.67  | 16   | 2.44  | 10.5  | 348   | 131  |
|          | Bulb Te             | 29  | 26.3   | 0.87  | 18   | 2.46  | 10.6  | 337   | 128   | 25.5  | 0.83  | 18  | 2.45  | 10.5   | 333  | 127   | 23.5  | 0.80  | 19   | 2.39  | 10.3  | 323   | 123  |
|          | or Wet              | 71  |  |   |  |   |   | ٠   |   |   | ١.  |   |   |  |  | ٠   |   | ٠   |  |   |   |   | •  |
| 5        | opul bu             | 29  | 30.6   | 0.49  | 12   | 2.47  | 10.5  | 336   | 142   | 29.7  | 0.46  | 12  | 2.45  | 10.5   | 332  | 141   | 27.4  | 0.45  | 12   | 2.39  | 10.2  | 322   | 136  |
| 8        | Enterir             | 63  | 27.9   | 0.70  | 15   | 2.40  | 10.2  | 318   | 130   | 27.1  | 0.67  | 16  | 2.38  | 10.2   | 315  | 129   | 25.0  | 0.65  | 16   | 2.32  | 6.6   | 302   | 125  |
|          |                     | 59  | 26.9   | 0.84  | 18   | 2.35  | 10.0  | 296   | 122   | 26.1  | 0.80  | 18  | 2.33  | 10.0   | 293  | 121   | 24.1  | 0.77  | 19   | 2.28  | 2.6   | 284   | 117  |
|          |                     | 71  |  | -   |  | -   | -   |   | -   |   | -   | -   |   | -  | -  | -   |   |   | -  | -   | -   | -   |  |
| 2        |                     | 29  | 31.3   | 0.47  | 12   | 2.33  | 8.6   | 295   | 137   | 30.4  | 0.45  | 12  | 2.31  | 8.6  | 292  | 135   | 28.1  | 0.44  | 12   | 2.26  | 9.5   | 284   | 131  |
|          |                     | 63  | 28.6   | 99.0  | 15   | 226   | 9.6   | 280   | 125   | 27.7  | 0.65  | 16  | 225   | 9.5  | 277  | 124   | 25.6  | 0.63  | 16   | 2.19  | 9.3   | 269   | 120  |
|          |                     | 59  | 27.6   | 0.82  | 18   | 2.22  | 9.4   | 260   | 118   | 26.8  | 0.78  | 18  | 2.20  | 9.3  | 257  | 116   | 24.7  | 0.75  | 19   | 2.15  | 9.1   | 250   | 113  |
|          |                     | 71  |  |   |  |   | -   |   |   |   |   |   |   |  |  | -   |   |   |  |   | -   | -   |  |
| <u>ر</u> |                     | 29  | 32.0   | 0.46  | 11   | 2.17  | 9.2   | 263   | 129   | 31.1  | 0.44  | 12  | 2.16  | 9.1  | 261  | 128   | 28.7  | 0.42  | 12   | 2.11  | 8.9   | 253   | 124  |
| 8        |                     | ස   | 29.3   | 99.0  | 15   | 2.11  | 9.0   | 249   | 118   | 28.4  | 0.63  | 16  | 2.09  | 8.9  | 247  | 117   |   | 0.61  | 16   | 2.05  | 8.7   | 239   | 114  |
|          |                     | 29  | 28.2   | 0.79  | 17   | 2.07  | 8.8   | 232   | 111   | 27.4  | 0.75  | 18  | 2.05  | 8.7  | 229  | 110   | 25.3  | 0.73  | 18   | 2.01  | 8.5   | 222   | 107  |
|          |                     |   | MBh  | S/T   | DeltaT   | KW  | AMPS  | HI PR   | LOPR  | MBh   | ΣV  | DeltaT  | ΚM  | AMPS   | HI PR  | LOPR  | MBh   | S/T   | DeltaT   | KW  | AMPS  | HI PR   | LOPR   |
|          |                     | Airflow   |  |   |  | 1180  |   |   | •   |   |   |   | 1050  |  |  |   |   |   |  | 920   |   |   |  |
|          |                     | IDB*  |  |   |  |   |   |   |   |   |   |   | 2   |  |  |   |   |   |  |   |   |   |  |
|          | 65 75 85 95 105 115 | 75 85 95 105 Entering Indoor Wet Bulb Temperature | Control of the cont | Airtion   MBh   28.2 29.3 32.0 - 2.0 28.3 32.0 - 2.0 28.3 - 2.0 | Airliow   Airl | Airliow         SST 0.75         CST 0.75         Airliow         Airliow | Mile   Mile | Mile   Mile | Mily   Mily | Milk   Milk | Mile   Mile | Mily   Mily | Mile   Mile | Michael   Mich | Mile   Signature   Sig | Main   Sample   Main   Main | Mily   Mily | Milk   Milk | Miles   Mile | Mile   Mile | Milk   Milk | Mile   Mile | Milk   Se   63   67   71   59   63   67   71   59   63   67   71   59   63   67   71   59   63   67   71   59   63   67   71   59   63   67   71   59   63   67   71   59   63   67   71   71   71   71   71   71   71 |

| 28.1 | 0.45 | 10      | 2.91 | 12.9   | 501  | 174  | 27.3 | 0.43 | 10     | 2.88 | 12.8 | 496   | 172  | 25.2 | 0.41 | 10     | 2.81 | 12.5 | 481   | 167  |                  |
|------|------|---------|------|--|--|------|------|------|--------|------|------|-------|------|------|------|--------|------|------|-------|------|------------------|
| 26.2 | 0.70 | 14      | 2.81 | 12.5   | 480  | 163  | 25.4 | 0.67 | 15     | 2.79 | 12.4 | 475   | 162  | 23.5 | 0.64 | 15     | 2.72 | 12.1 | 461   | 157  |                  |
| 24.2 | 0.92 | 17      | 2.73 | 12.1   | 455  | 150  | 23.5 | 0.88 | 18     | 2.71 | 12.0 | 450   | 148  | 21.7 | 0.85 | 18     | 2.64 | 11.7 | 437   | 144  |                  |
| 23.5 | 1.00 | 18      | 2.67 | 11.9   | 423  | 141  | 22.8 | 0.98 | 20     | 2.65 | 11.8 | 418   | 139  | 21.1 | 0.95 | 20     | 2.59 | 11.5 | 406   | 135  |                  |
| 30.3 | 0.45 | 11      | 2.81 | 12.2   | 453  | 168  | 29.5 | 0.42 | 11     | 2.79 | 12.2 | 449   | 166  | 27.2 | 0.41 | 11     | 2.72 | 11.9 | 435   | 161  |                  |
| 28.3 | 0.69 | 15      | 2.72 | 11.9   | 435  | 158  | 27.4 | 99.0 | 16     | 2.70 | 11.8 | 430   | 156  | 25.3 | 0.64 | 16     | 2.64 | 11.5 | 417   | 152  |                  |
| 26.1 | 0.91 | 19      | 2.64 | 11.5   | 412  | 145  | 25.4 | 0.87 | 19     | 2.62 | 11.4 | 408   | 143  | 23.4 | 0.84 | 20     | 2.56 | 11.2 | 395   | 139  |                  |
| 25.4 | 1.00 | 20      | 2.58 | 11.3   | 382  | 136  | 24.6 | 96.0 | 21     | 2.56 | 11.2 | 379   | 135  | 22.7 | 0.94 | 21     | 2.50 | 10.9 | 367   | 130  |                  |
| 31.9 | 0.43 | 11      | 2.70 | 11.6   | 403  | 160  | 31.0 | 0.41 | 11     | 2.68 | 11.5 | 336   | 159  | 28.6 | 0.39 | 11     | 2.61 | 11.2 | 387   | 154  |                  |
| 29.8 | 0.67 | 15      | 2.62 | 11.2   | 386  | 151  | 28.9 | 0.64 | 16     | 2.60 | 11.2 | 383   | 149  | 26.7 | 0.61 | 16     | 2.53 | 10.9 | 371   | 145  |                  |
| 27.5 | 0.88 | 19      | 2.54 | 10.9   | 396  | 138  | 26.7 | 0.84 | 20     | 2.52 | 10.8 | 362   | 137  | 24.6 | 0.81 | 20     | 2.46 | 10.6 | 351   | 132  |                  |
| 26.7 | 0.39 | 20      | 2.48 | 10.7   | 340  | 130  | 25.9 | 0.94 | 21     | 2.47 | 10.6 | 337   | 128  | 23.9 | 0.91 | 22     | 2.41 | 10.4 | 327   | 125  | i+ion            |
| 32.7 | 0.42 | 11      | 2.57 | 11.0   | 354  | 153  | 31.8 | 0.40 | 11     | 2.55 | 10.9 | 320   | 151  | 29.3 | 0.38 | 11     | 2.49 | 10.6 | 340   | 147  | ( / /            |
| 30.5 | 0.65 | 15      | 2.49 | 10.6   | 339  | 143  | 29.6 | 0.62 | 16     | 2.47 | 10.5 | 336   | 142  | 27.3 | 0.59 | 16     | 2.41 | 10.3 | 326   | 138  | Spot population  |
| 28.2 | 0.85 | 19      | 2.42 | 10.3   | 321  | 131  | 27.4 | 0.81 | 20     | 2.40 | 10.3 | 318   | 130  | 25.2 | 0.79 | 20     | 2.34 | 10.0 | 306   | 126  | 7 01 00          |
| 27.4 | 0.95 | 20      | 2.37 | 10.1   | 299  | 123  | 26.6 | 0.91 | 21     | 2.35 | 10.0 | 296   | 122  | 24.5 | 0.88 | 22     | 2.29 | 8.6  | 287   | 119  | 2000             |
| 33.5 | 0.41 | 11      | 2.42 | 10.2   | 311  | 147  | 32.6 | 0.39 | 11     | 2.40 | 10.1 | 308   | 145  | 30.0 | 0.37 | 11     | 2.35 | 6.6  | 536   | 141  |                  |
| 31.2 | 0.63 | 15      | 2.35 | 6.6  | 298  | 138  | 30.3 | 09.0 | 16     | 2.33 | 9.8  | 295   | 137  | 28.0 | 0.58 | 16     | 2.28 | 9.6  | 286   | 132  | J<br>L<br>U<br>V |
| 28.9 | 0.83 | 19      | 228  | 9.6  | 282  | 126  | 28.0 | 62'0 | 19     | 226  | 9.6  | 280   | 125  | 25.9 | 0.77 | 20     | 221  | 9.3  | 27.1  | 121  |                  |
| 28.0 | 0.93 | 20      | 2.23 | 9.4  | 262  | 119  | 27.2 | 0.89 | 21     | 2.22 | 9.4  | 260   | 118  | 25.1 | 0.86 | 21     | 2.17 | 9.2  | 252   | 114  |                  |
| 34.3 | 0.39 | 10      | 2.25 | 9.6  | 277  | 139  | 33.3 | 0.37 | 11     | 2.24 | 9.2  | 275   | 138  | 30.8 | 0.36 | 11     | 2.19 | 9.3  | 266   | 134  | 2                |
| 32.0 | 0.61 | 15      | 2.19 | 9.3  | 266  | 131  | 31.1 | 0.58 | 16     | 2.17 | 9.5  | 263   | 129  | 28.7 | 0.56 | 16     | 2.12 | 9.0  | 255   | 125  | mpo ro           |
| 29.5 | 0.80 | 19      | 2.13 | 9.0  | 8.9 9.0 234 252 234 252 21.1 12 27.9 28.7 0.86 0.77 2.07 2.11 8.8 9.0 232 249 25.7 2.11 8.8 9.0 232 249 25.7 2.11 25.7 2.11 8.8 9.0 232 249 25.7 2.12 26.5 26.5 8.6 2.06 8.6 2.06 8.6 2.06 8.6 2.06 8.6 2.06 8.6 2.06 8.6 2.06 8.6 2.06 8.7 2.07 8.8 2.06 8.9 2.06 8.9 3.06 8.9 3 | 14   |      |      |        |      |      |       |      |      |      |        |      |      |       |      |                  |
| 28.7 | 06.0 | 20      | 2.08 | 8.9<br>234<br>112<br>27.9<br>0.86<br>2.07<br>8.8<br>232<br>111<br>2.02<br>8.6<br>2.02<br>8.6<br>2.02<br>8.6<br>2.02<br>8.6<br>2.02<br>2.02<br>2.02<br>2.03<br>2.03<br>2.03<br>2.03<br>2.03 |  |      |      |      |        |      |      |       |      |      |      |        |      |      |       |      |                  |
| MBh  | S/T  | Delta T | ΚW   | AMPS   | HI PR  | LOPR | MBh  | S/T  | DeltaT | KW   | AMPS | HI PR | LOPR | MBh  | S/T  | DeltaT | KW   | AMPS | HI PR | LOPR | Entoring Inc     |
|      |      |         | 1180 |  |  |      |      |      |        | 1050 |      |       |      |      |      |        | 920  |      |       |      | * 100            |
|      |      |         |      |  |  |      |      |      |        | 72   |      |       |      |      |      |        |      |      |       |      |                  |
|      | _    | _       | _    | _  | _  | _    | _    | _    | _      | _    | _    | _     | _    | _    | _    | _      | _    | _    | _     | _    |                  |

\* IDB: Entering Indoor Dry Bulb Temperature \*\* IDB: Shaded area is ACCA (The High and low pressures are measured at the liquid and suction access fittings.

MODEL: GPC1330H41A\*

### **GPC1330H41AA**

### COOLING OPERATION

# **EXPANDED PERFORMANCE DATA**

MODEL: GPC1330H41A\*

Design Subcooling, 12±3 🕆 @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 8±3 °F @ the compressor suction access fitting connection.

|      |         |               |      |          |           |      |          |      |             |                |      |         | Outdoo  | r Ambie | ant Tem  | Outdoor Ambient Temperature | 4            |      |      |      |      |      |        |        |        | П    |
|------|---------|---------------|------|----------|-----------|------|----------|------|-------------|----------------|------|---------|---------|---------|----------|-----------------------------|--------------|------|------|------|------|------|--------|--------|--------|------|
|      |         |               |      | 9        | 65        |      |          | '    | 75          |                |      | 85      | 5       |         |          | 95                          | 5            |      |      | 105  | 5    |      |        | 115    |        |      |
|      |         |               |      |          |           |      |          |      |             |                |      | Enterin | g Indoc | r Wet E | 3ulb Ter | mperatu                     |              |      |      |      |      |      |        |        |        |      |
| IDB* | Airflow |               | 59   | ස        | 29        | 71   | 29       | 63   | 67          | 71             | 29   | 63      | 29      | 71      | 29       | 63 67 71 59 63              | 67           | 71   | 59   | 63   | 29   | 71   | 29     | 63     | . 29   | 7    |
|      |         | MBh           | 29.5 | 29.8     | 31.9      | 34.1 | 28.5     | 29.2 | 31.1        | 33.3           | 27.9 | 28.5    | 30.4    | 32.5    | 27.2     | 27.8                        | 29.7         | 31.7 | 25.8 | 26.4 | 28.2 | 30.1 | 23.9 2 |        |        | 27.9 |
|      |         | S/T           | 1.00 | 0.92     | 0.75      |      | Ė        | 96.0 | 0.78        | 0.58           | 1.00 | 1.00    | 0.80    | 09.0    | 1.00     | 1.00                        | 0.83         | 0.62 | 1.00 | 1.00 | 0.86 | 0.64 | 1.00 1 | 1.00 0 | 0.86 0 | 0.65 |
|      |         | DeltaT        | 23   | 21       | 19        | 15   | 22       | 22   | 19          | 15             | 22   | 22      | 19      | 15      | 21       | 22                          | 19           | 15   | 20   | 21   | 19   | 15   |        |        |        | 14   |
|      | 1180    | K             | 2.10 | 2.14     | 2.21      | 2.27 | 2.25     | 2.30 | 2.37        | 2.44           | 2.39 | 2.44    | 2.51    | 2.59    | 2.50     | 2.56                        | 2.64         | 2.72 | 2.60 | 2.66 | 2.74 | 2.83 |        |        |        | 2.93 |
|      |         | AMPS          | 8.9  | 9.1      | 9.3       | 9.6  | 9.2      | 9.7  | 10.0        | 10.3           | 10.2 | 10.4    | 10.7    | 11.0    | 10.8     | 11.0                        | 11.3         | 11.7 | 11.4 | 11.6 | 12.0 | 12.3 |        |        |        | 13.0 |
|      |         | H PR          | 236  | 254      | 269       | 280  | 265      | 285  | 301         | 314            | 302  | 324     | 343     | 327     | 343      | 370                         | 330          | 407  | 386  | 416  | 439  | 458  |        |        |        | 909  |
|      |         | LOPR          | 114  | 121      | 132       | 140  | 120      | 128  | 139         | 148            | 125  | 133     | 145     | 154     | 131      | 139                         | 152          | 162  | 137  | 146  | 159  | 170  | 142 1  | 151 1  | 165 1  | 176  |
|      |         | MBh           | 28.4 | 29.0     | 31.0      |      | -        | 28.3 | 30.2        | 32.3           | 27.0 | 27.6    |         | 31.6    | 26.4     | 27.0                        | 28.8         | 30.8 | 25.1 | 25.6 | 27.4 | 29.2 |        |        |        | 7.1  |
|      |         | S/T           | 0.94 | 0.88     | 0.72      | 0.54 | 0.97     | 0.91 | 0.74        | 0.56           | 1.00 | 0.94    |         | 0.57    | 1.00     | 0.97                        | 62.0         | 0.59 | 1.00 | 1.00 | 0.82 | 0.61 |        |        | 0.82 0 | 0.62 |
|      |         | DeltaT        | 23   | 83       | 19        |      | ⊢        | 23   | 20          | 16             | 24   | 23      |         | 16      | 23       | 23                          | 20           | 16   | 22   | 22   | 20   | 16   |        |        |        | 15   |
| 80   | 1050    | Κ             | 2.08 | 2.13     | 2.19      |      | ₩        | 228  | 2.35        | 2.42           | 2.37 | 2.42    |         | 2.57    | 2.48     | 2.54                        | 2.62         | 2.70 | 2.58 | 2.64 | 2.72 | 2.81 | 2.67 2 |        |        | 2.91 |
|      |         | AMPS          | 8.9  | 9.0      | 9.3       |      | ⊢        | 9.6  | 6.6         | 10.2           | 10.1 | 10.3    |         | ⊢       | 10.7     | 10.9                        | 11.2         | 11.6 | 11.3 | 11.5 | 11.9 | 12.3 |        |        |        | 12.9 |
|      |         | H PR          | 234  | 252      | 266       |      | 263      | 282  | 298         | 311            | 299  | 321     | 339     | ⊢       | 340      | 366                         | 386          | 403  | 383  | 412  | 435  | 453  |        |        |        | 501  |
|      | _       | LOPR          | 112  | 120      | 131       |      | 119      | 126  | 138         | 147            | 123  | 131     | 143     | 153     | 130      | 138                         | 151          | 160  | 136  | 145  | 158  | 168  | 141    | 150 1  | 163 1  | 174  |
|      |         | MBh           | 26.2 | 26.7     | 28.6      |      | ┡        | 26.1 | 27.9        | 29.8           | 25.0 | 25.5    | 27.2    |         | 24.3     | 24.9                        | 26.6         | 28.4 | 23.1 | 23.6 | 25.3 | 27.0 | ١.     |        |        | 25.0 |
|      |         | S√            | 0.91 | 0.85     | 0.69      |      | ┢        | 0.88 | 0.72        | 0.54           | 96.0 | 0.90    |         | ▙       | 0.39     | 0.93                        | 92.0         | 0.57 | 1.03 | 0.97 | 0.79 | 0.59 |        |        |        | 0.59 |
|      |         | DeltaT        | 24   | প্ত      | 8         | 16   | 24       | 23   | 20          | 16             | 24   | 23      |         | ╄       | 24       | 23                          | 20           | 16   | 24   | 23   | 20   | 16   |        |        |        | 15   |
|      | 920     | ××            | 2.04 | 2.08     | 2.14      |      | 2.18     | 223  | 2.29        | 2.37           | 2.31 | 2.36    | 2.43    | 2.51    | 2.43     | 2.48                        | 2.55         | 2.63 | 2.52 | 2.58 | 2.66 | 2.74 | 2.61 2 |        |        | 2.83 |
|      |         | AMPS          | 8.7  | 8.8      | 9.1       | 9.3  | 9.5      | 9.4  | 6.7         | 10.0           | 6.6  | 10.1    |         | ₩       | 10.5     | 10.7                        | 11.0         | 11.3 | 11.0 | 11.3 | 11.6 | 12.0 |        |        |        | 2.6  |
|      |         | H<br>R        | 227  | 244      | 258       | 269  | 255      | 274  | 289         | 302            | 290  | 312     | 329     | 343     | 330      | 355                         | 375          | 391  | 371  | 366  | 422  | 440  |        | 441 4  |        | 486  |
|      |         | LOPR          | 109  | 116      | 127       | 135  | 115      | 123  | 134         | 143            | 120  | 127     | 139     | 148     | 126      | 134                         | 146          | 156  | 132  | 140  | 153  | 163  |        |        |        | 169  |
|      |         |               |      |          |           |      |          |      |             |                |      | NOTE:   | Shaded  | dareare | δŠ       | ARI rating                  | g conditions |      |      |      |      |      |        |        |        | 1    |
|      |         | MBh           | 29.7 | 30.3     | 31.7      | 33.9 | 29.0     | 29.6 | 31.0        | 33.1           | 28.3 | 28.9    | 30.3    | 32.3    | 27.6     | 28.2                        | 29.5         | 31.5 | 26.3 | 26.8 | 28.0 | 29.9 | 24.3 2 |        |        | 7.7  |
|      |         | ΥS            | 1.00 | 1.00     | 0.30      | 0.73 | ⊢        | 1.00 | 0.93        | 0.76           | 1.00 | 1.00    | 96.0    | 0.78    | 1.00     | 1.00                        | 0.99         | 0.80 | 1.00 | 1.00 | 1.00 | 0.83 |        | 1.00   | 1.00   | 0.84 |
|      |         | DeltaT        | 23   | 24       | 22        | 19   | ┡        | 23   | 23          | 19             | 8    | 23      |         | ⊢       | 22       | 22                          | 23           | 20   | 20   | 21   | 22   | 19   |        |        |        | 18   |
|      | 1180    | Κ             | 2.12 | 2.16     | 2.22      | 2.29 | 2.27     | 2.32 | 2.39        | 2.46           | 2.40 | 2.45    |         | _       | 2.52     | 2.58                        | 2.66         | 2.74 | 2.63 | 2.68 | 2.77 | 2.86 | 2.71 2 |        |        | 2.95 |
|      |         | AMPS          | 9.0  | 9.2      | 9.4       | 9.7  | 9.6      | 9.8  | 10.1        | 10.4           | 10.3 | 10.5    |         | _       | 10.9     | 11.1                        | 11.4         | 11.8 | 11.5 | 11.7 | 12.1 | 12.4 |        |        |        | 3.1  |
|      |         | H PR          | 239  | 257      | 271       | 283  | 268      | 288  | 304         | 317            | 305  | 328     |         | -       | 347      | 373                         | 394          | 411  | 330  | 420  | 443  | 463  |        |        |        | 511  |
|      |         | LOPR          | 115  | 122      | 133       | 142  | 121      | 129  | 141         | 150            | 126  | 134     | 146     | 156     | 132      | 141                         | 154          | 164  | 139  | 147  | 161  | 171  | 143 1  | 153 1  | 167 1  | 177  |
|      |         | MBh           | 28.9 | 29.4     | 30.8      |      | Н        | 28.7 | 30.1        | 32.1           | 27.5 | 28.0    | 29.4    | -       | 26.8     | 27.4                        | 28.7         | 30.6 | 25.5 | 26.0 | 27.2 | 29.0 |        |        | 25.2 2 | 56.9 |
|      |         | SYT           | 0.99 | 0.95     | 0.86      |      | -        | 0.99 | 0.89        | 0.72           | 1.00 | 1.00    |         |         | 1.00     | 1.00                        | 0.94         | 0.76 | 1.00 | 1.00 | 0.98 | 0.79 |        |        |        | 08.  |
|      |         | DeltaT        | 25   | 24       | 23        |      | 25       | 25   | 23          | 20             | 24   | 22      |         |         | 24       | 24                          | 24           | 20   | 22   | 23   | 23   | 20   |        |        |        | 19   |
| 82   | 1050    | KW            | 2.10 | 2.14     | 2.21      |      | 2.25     | 2.30 | 2.37        | 2.44           | 2.39 | 2.44    |         |         | 2.50     | 2.56                        | 2.64         | 2.72 | 2.60 | 2.66 | 2.74 | 2.83 |        |        |        | .93  |
|      |         | AMPS          | 8.9  | 9.1      | 9.3       |      | 9.2      | 9.7  | 10.0        | 10.3           | 10.2 | 10.4    |         |         | 10.8     | 11.0                        | 11.3         | 11.7 | 11.4 | 11.6 | 12.0 | 12.3 |        |        |        | 3.0  |
|      |         | HI PR         | 236  | 254      | 269       |      | 265      | 285  | 301         | 314            | 302  | 324     |         |         | 343      | 370                         | 330          | 407  | 386  | 416  | 439  | 458  |        |        |        | 909  |
|      |         | LOPR          | 114  | 121      | 132       | 140  | 120      | 128  | 139         | 148            | 125  | 133     |         | 154     | 131      | 139                         | 152          | 162  | 137  | 146  | 159  | 170  | 142 1  | 151 1  |        | 176  |
|      |         | MBh           | 26.6 | 27.1     | 28.4      | 30.3 | 26.0     | 26.5 | 27.8        | 29.6           | 25.4 | 25.9    | 27.1    |         | 24.8     | 25.3                        | 26.4         | 28.2 | 23.5 | 24.0 | 25.1 | 26.8 |        |        | 23.3 2 | 24.8 |
|      |         | S/T           | 0.95 | 0.92     | 0.83      |      | Н        | 0.95 | 0.86        | 0.70           | 1.00 | 0.97    | 0.88    | Н       | 1.00     | 1.00                        | 0.91         | 0.74 | 1.00 | 1.00 | 0.94 | 92.0 |        |        |        | .77  |
|      |         | DeltaT        | 25   | 22       | 24        | 20   | 26       | 25   | 24          | 21             | 52   | 22      | 24      |         | 25       | 25                          | 24           | 21   | 24   | 24   | 24   | 20   | 22     |        |        | 19   |
|      | 920     | ΚM            | 2.05 | 2.09     | 2.15      | 2.22 | 2.20     | 224  | 2.31        | 2.38           | 2.33 | 2.38    | 2.45    |         | 2.44     | 2.50                        | 2.57         | 2.66 | 2.54 | 2.60 | 2.68 | 2.76 |        | 2.68 2 | 2.77 2 | 2.86 |
|      | _       | AMPS          | 8.7  | 8.9      | 9.1       | 9.4  | $\dashv$ | 9.5  | 2.6         | 10.1           | 10.0 | 10.2    | 10.5    | 10.8    | 10.5     | 10.8                        | 11.1         | 11.4 | 11.1 | 11.3 | 11.7 | 12.0 |        |        |        | 12.7 |
|      |         | \<br>∃        | 229  | 247      | 260       | 272  | 257      | 277  | 292         | 305            | 292  | 315     | 332     | 347     | 333      | 358                         | 379          | 395  | 375  | 403  | 426  | 444  |        | 446 4  | 471 4  | 491  |
| 1    |         | LOPR          | 110  | 117      | 128       | 136  | -        | 124  | 135         | <del>1</del> 4 | 121  | 129     | 140     | 150     | 127      | 135                         | 148          | 157  | 133  | 142  | 155  | 165  | 138    |        | 60     | 170  |
| *    | OTE:    | . 0000 606046 | 1011 | ) weight | Sitione C | 000  |          | 90.  | - Louis Cto | 1000           | A. O | Town    | 021.400 |         | 1V T     | 0,000,10                    | 101100       |      |      |      |      |      |        |        |        |      |

<sup>\*</sup> NOTE: Shaded area is AHRI Rating Conditions IDB: Entering Indoor Dry Bulb Temperature High and low pressures are measured at the liquid and suction access fittings.

ure KW = Total system power AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

### **GPC1336H41AA**

### **COOLING OPERATION**

# **EXPANDED PERFORMANCE DATA**

Design Subcooling, 12±3 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 8±3 °F @ the compressor suction access fitting connection.

|                             |     |                                      |         |      |      |         |      |      |       |       |      |      |         |      |      |      |       |      |      |         |      |      | _    |       |
|-----------------------------|-----|--------------------------------------|---------|------|------|---------|------|------|-------|-------|------|------|---------|------|------|------|-------|------|------|---------|------|------|------|-------|
|                             |     |                                      | 71      | •    |      |         |      | ٠    | ٠     | ٠     | ٠    | ٠    |         | ٠    | ٠    | ٠    | •     | ٠    | •    | ٠       |      | -    | ٠    | ٠     |
|                             | 115 |                                      | 29      | 32.1 | 0.49 | 11      | 3.44 | 15.4 | 495   | 156   | 31.1 | 0.47 | 11      | 3.42 | 15.3 | 490  | 155   | 28.7 | 0.45 | 11      | 3.33 | 14.9 | 476  | 150   |
|                             | 1   |                                      | 63      | 29.3 | 0.71 | 14      | 3.34 | 15.0 | 469   | 143   | 28.4 | 0.68 | 15      | 3.31 | 14.9 | 464  | 142   | 26.2 | 99.0 | 15      | 3.23 | 14.5 | 451  | 138   |
|                             |     |                                      | 69      | 28.2 | 0.85 | 16      | 3.26 | 14.7 | 436   | 135   | 27.4 | 0.81 | 17      | 3.24 | 14.5 | 432  | 133   | 25.3 | 82'0 | 11      | 3.16 | 14.2 | 419  | 129   |
|                             |     |                                      | 71      |      | -    | -       | -    | -    | -     | -     |      | -    | -       | -    | -    | -    |       | -    | -    | -       | -    | -    | -    | -     |
|                             | 105 |                                      | 29      | 34.6 | 0.49 | 12      | 3.33 | 14.7 | 448   | 151   | 33.6 | 0.47 | 12      | 3.30 | 14.5 | 444  | 150   | 31.0 | 0.45 | 12      | 3.22 | 14.2 | 431  | 145   |
|                             | 10  |                                      | 63      | 31.6 | 0.71 | 15      | 3.23 | 14.2 | 425   | 139   | 30.7 | 0.67 | 16      | 3.20 | 14.1 | 420  | 137   | 28.3 | 0.65 | 16      | 3.12 | 13.8 | 408  | 133   |
|                             |     |                                      | 29      | 30.5 | 0.85 | 18      | 3.16 | 13.9 | 395   | 130   | 29.6 | 0.81 | 18      | 3.13 | 13.8 | 391  | 129   | 27.3 | 0.78 | 19      | 3.06 | 13.5 | 379  | 125   |
|                             |     |                                      | 7.1     |      |      | -       | -    | -    | -     | -     |      | -    | -       | -    | -    | -    |       |      | -    | -       | -    | -    | -    |       |
|                             |     | •                                    | 29      | 36.4 | 0.47 | 12      | 3.20 | 13.9 | 336   | 144   | 35.4 | 0.45 | 12      | 3.17 | 13.8 | 395  | 143   | 32.7 | 0.43 | 12      | 3.09 | 13.4 | 383  | 139   |
| Outdoor Ambient Temperature | 92  | Entering Indoor Wet Bulb Temperature | ස       | 33.3 | 0.68 | 15      | 3.10 | 13.5 | 377   | 132   | 32.3 | 0.65 | 16      | 3.07 | 13.4 | 374  | 131   | 29.8 | 0.63 | 16      | 3.00 | 13.1 | 362  | 127   |
| ent Temp                    |     | ulb Ten                              | 29      | 32.1 | 0.82 | 18      | 3.03 | 13.2 | 351   | 124   | 31.2 | 0.78 | 19      | 3.01 | 13.1 | 347  | 123   | 28.8 | 0.75 | 19      | 2.94 | 12.8 | 337  | 119   |
| Ambie                       |     | r Wet E                              | 7.1     |      |      | -       | -    | -    | -     | -     |      | -    | -       | -    | -    | -    |       |      | -    | -       | -    | -    | -    |       |
| utdoor                      |     | Indoo                                | 29      | 37.3 | 0.46 | 12      | 3.04 | 13.1 | 320   | 137   | 36.3 | 0.44 | 12      | 3.02 | 13.0 | 346  | 136   | 33.5 | 0.42 | 12      | 2.94 | 12.7 | 336  | 132   |
| 0                           | 82  | ntering                              | 63      | 34.1 | 99.0 | 15      | 2.95 | 12.7 | 331   | 126   | 33.1 | 0.63 | 16      | 2.93 | 12.6 | 328  | 125   | 30.5 | 0.61 | 16      | 2.86 | 12.3 | 318  | 121   |
|                             |     | Е                                    | 29      | 32.9 | 0.79 | 18      | 2.89 | 12.5 | 308   | 118   | 31.9 | 0.75 | 18      | 2.86 | 12.4 | 305  | 117   | 29.5 | 0.73 | 19      | 2.80 | 12.1 | 296  | 114   |
|                             |     |                                      | 11      |      |      | -       | -    | -    | -     | -     |      | -    | -       | -    | -    | -    |       |      | -    | -       | -    | -    | -    |       |
|                             |     |                                      | 29      | 38.3 | 0.45 | 12      | 2.86 | 12.2 | 308   | 132   | 37.1 | 0.43 | 12      | 2.84 | 12.1 | 305  | 131   | 34.3 | 0.41 | 12      | 2.77 | 11.8 | 295  | 127   |
|                             | 75  |                                      | 63      | 34.9 | 0.64 | 15      | 2.78 | 11.9 | 291   | 121   | 33.9 | 0.61 | 16      | 2.76 | 11.8 | 288  | 120   | 31.3 | 0.59 | 16      | 2.69 | 11.5 | 280  | 116   |
|                             |     |                                      | 29      | 33.7 | 0.77 | 18      | 2.72 | 11.6 | 271   | 114   |      | 0.73 | 18      | 2.70 | 11.6 |      | 113   | 30.2 | 0.71 | 19      | 2.64 | 11.3 | 260  | 109   |
|                             |     |                                      | 71      |      |      | -       | -    | -    | -     | -     |      | -    | -       | -    | -    | -    |       | -    | -    | -       | -    | -    | -    | -     |
|                             |     |                                      | 29      | 39.2 | 0.43 | 11      | 2.66 | 11.4 | 274   | 125   | 38.0 | 0.41 | 12      | 2.64 | 11.3 | 271  | 124   | 35.1 | 0.40 | 12      | 2.58 | 11.1 | 263  | 120   |
|                             | 65  |                                      | 63      | 35.8 | 0.62 | 15      | 2.59 | 11.1 | 260   | 115   | 34.7 | 0.59 | 16      | 2.57 | 11.0 | 257  | 114   | 32.0 | 0.57 | 16      | 2.51 | 10.8 | 249  | 110   |
|                             |     |                                      | 29      | 34.5 | 0.74 | 17      | 2.53 | 10.9 | 241   | 108   | 33.5 | 0.71 | 18      | 2.52 | 10.8 | 239  | 107   | 30.9 | 99.0 | 18      | 2.46 | 10.6 | 232  | 103   |
|                             |     |                                      |         | MBh  | SYT  | Delta T | KW   | AMPS | HI PR | LO PR | MBh  | S/T  | Delta T | KW   | AMPS | H PR | LO PR | MBh  | S/T  | Delta T | KW   | AMPS | H PR | LO PR |
|                             |     |                                      | Airflow |      | I    |         | 1350 |      |       |       |      |      |         | 1200 |      |      |       |      |      |         | 1050 |      |      |       |
|                             |     |                                      | IDB*    |      |      |         |      |      |       |       |      |      |         | 2    |      |      |       |      |      |         |      |      |      |       |

|        |        |         |        |           | _      |       |        |           |         |        |           |       |       |        |        |         |        |        | _      |       | , |
|--------|--------|---------|--------|-----------|--------|-------|--------|-----------|---------|--------|-----------|-------|-------|--------|--------|---------|--------|--------|--------|-------|---|
| 34.3   | 0.42   | 10      | 3.59   | 16.1      | 522    | 168   | 33.3   | 0.40      | 10      | 3.56   | 15.9      | 517   | 167   | 30.8   | 0.39   | 10      | 3.47   | 15.5   | 501    | 162   |   |
| 32.0   | 0.66   | 14      | 3.47   | 15.5      | 200    | 158   | 31.1   | 0.63      | 15      | 3.44   | 15.4      | 495   | 157   | 28.7   | 09.0   | 15      | 3.36   | 15.0   | 481    | 152   |   |
| 29.6   | 0.87   | 17      | 3.36   | 15.1      | 474    | 145   | 28.7   | 0.83      | 18      | 3.34   | 15.0      | 469   | 143   | 26.5   | 0.80   | 19      | 3.25   | 14.6   | 455    | 139   |   |
| 28.7   | 0.97   | 19      | 3.29   | 14.8      | 440    | 136   | 27.9   | 0.93      | 20      | 3.27   | 14.7      | 436   | 135   | 25.7   | 0.89   | 20      | 3.19   | 14.3   | 423    | 131   |   |
| 37.1   | 0.42   | 11      | 3.47   | 15.3      | 472    | 163   | 36.0   | 0.40      | 11      | 3.44   | 15.1      | 468   | 161   | 33.2   | 0.39   | 11      | 3.35   | 14.8   | 454    | 156   |   |
| 34.5   | 0.65   | 15      | 3.36   | 14.8      | 453    | 153   | 33.5   | 0.62      | 16      | 3.33   | 14.7      | 448   | 151   | 31.0   | 09:0   | 16      | 3.25   | 14.3   | 435    | 147   |   |
| 31.9   | 0.86   | 19      | 3.25   | 14.4      | 429    | 140   | 31.0   | 0.82      | 19      | 3.23   | 14.2      | 425   | 139   | 28.6   | 0.79   | 20      | 3.15   | 13.9   | 412    | 134   |   |
| 31.0   | 96.0   | 20      | 3.18   | 14.1      | 399    | 132   | 30.1   | 0.92      | 21      | 3.16   | 13.9      | 395   | 130   | 27.8   | 0.88   | 22      | 3.08   | 13.6   | 383    | 126   |   |
| 39.0   | 0.40   | 11      | 3.33   | 14.4      | 420    | 155   | 37.9   | 98.0      | 11      | 3.30   | 14.3      | 416   | 154   | 35.0   | 0.37   | 11      | 322    | 14.0   | 403    | 149   |   |
| 36.4   | 0.63   | 16      | 3.22   | 14.0      | 403    | 146   | 35.3   | 09.0      | 16      | 3.20   | 13.9      | 336   | 144   | 32.6   | 0.58   | 16      | 3.12   | 13.5   | 387    | 140   |   |
| 33.6   | 0.83   | 19      | 3.12   | 13.6      | 381    | 134   | 32.6   | 0.79      | 20      | 3.10   | 13.5      | 37.7  | 132   | 30.1   | 0.76   | 20      | 3.02   | 13.2   | 366    | 128   |   |
| 32.6   | 0.93   | 21      | 3.06   | 13.3      | 354    | 126   | 31.7   | 0.88      | 21      | 3.03   | 13.2      | 351   | 124   | 29.2   | 0.85   | 22      | 2.96   | 12.9   | 340    | 121   |   |
| 40.0   | 0.39 0 | 11      | 3.16 3 | 13.6      | 898    | 148 1 | 38.8   | 0.37 0    | 11      | 3.14 3 | 13.5      | 365 3 | 146 1 | 35.8 2 | 0.36 0 | 11      | 3.06 2 | 13.2   | 354 3  | 142 1 |   |
| 37.3 4 | 0.61   | , 91    | 3.07   | 13.2 1:   | 353 3  | 139 1 | 36.2   | 0.58      | , 91    | 3.04 3 | 13.1 13   | 350 3 | 137 1 | 33.4 3 | 0.56   | , 91    | 2.97 3 | 12.8 1 | 339 3  | 133 1 |   |
| 34.4 3 | 0.80   | . 61    | 2.97 3 | 12.8 1    | 335 3  | 127 1 | 33.4 3 | 0.77 0    | . 50    | 2.95 3 | 12.7 1    | 331 3 | 126 1 | 30.9   | 0.74 0 | . 50    | 2.88 2 | 12.4 1 | 321 3  | 122 1 |   |
| 33.4 3 | 0.90 0 | 20      | 2.91 2 | 12.6 1    | 311    | 120 1 | 32.5 3 | 0.86 0    | 21      | 2.89 2 | 12.5 1    | 308   | 118 1 | 30.0   | 0.83 0 | 22      | 2.82 2 | 12.2 1 | 299    | 115 1 |   |
| 41.0   | 0.38   | 11      | 2.98   | 12.7      | 324    | 142   | 39.8   | 0.36      | 11      | 2.96   | 12.6      | 321   | 141   | 36.7   | 0.35 ( | 11      | 2.89 2 | 12.3   | 311    | 137   |   |
| 38.2   | 0.59 ( | 15      | 2.89   | 12.3      | 311    | 134   | 37.1   | 0.57 (    | 16      | 2.87   | 12.2      | 308   | 132   | 34.2   | 0.55 ( | 16      | 2.80   | 11.9   | 299    | 128   |   |
| 35.3   | 0.78   | 19      | 2.80   |           | 294    | 122   | 34.2   | 0.75      | 20      | 2.78   | 11.9      | 291   | 121   | 31.6   | 0.72 ( | 20      | 2.71   | . 9111 | 283    | 118   |   |
| 34.3   | 0.88   | 20      | 2.74   | 11.7 12.0 | 274    | 115   | 33.3   | 0.84      | 21      | 2.72   | 11.6      | 271   | 114   |        | 0.81   |         |        | 11.4   | 263    | 110   |   |
| 42.0   | 0.37   | 11      | 2.77   | 11.9      | 289    | 135   | 40.7   |           | 11      | 2.75   |           | 286   | 133   | 37.6   | 0.34   | 11      | 2.68   | 11.5   | 277    | 129   |   |
| 39.1   | 0.57   | 15      | 2.69   | 11.5      | 277    | 126   | 38.0   | 0.55 0.35 | 16      | 2.67   | 11.4 11.8 | 274   | 125   | 35.0   | 0.53   | 16      | 2.60   | 11.2   | 266    | 121   |   |
| 36.1   | 0.76   | 19      | 2.61   | 11.2      | 262    | 116   | 35.1   | 0.72      | 19      |        | 11.1      |       | 115   | 32.4   | 69.0   | 20      | 2.53   | 10.9   | 252    | 111   |   |
| 35.1   | 0.84   | 20      | 2.55   | 11.0      | 244    | 109   | 34.1   | 0.81      | 21      | 2.53   | 10.9      | 241   | 108   | 31.4   | 0.78   | 21      | 2.48   | 10.7   | 234    | 105   |   |
| MBh    | S/T    | Delta T | ΚM     | AMPS      | H<br>R | LO PR | MBh    | S/T       | Delta T | ΚM     | AMPS      | H PR  | LO PR | MBh    | S/T    | Delta T | KW     | AMPS   | H<br>R | LO PR |   |
|        |        |         | 1350   |           |        |       |        |           |         | 1200   |           |       |       |        |        |         | 1050   |        |        |       |   |
|        |        |         |        |           |        |       | _      |           |         | 75     |           |       |       |        |        |         |        |        |        |       |   |
| _      | _      |         |        |           |        |       |        |           |         |        |           |       |       |        |        |         | _      |        |        |       |   |

NOTE: Shaded area is ACCA (TVA) conditions High and low pressures are measured at the liquid and suction access fittings. \* IDB: Entering Indoor Dry Bulb Temperature

MODEL: GPC1336H41A\*

### **GPC1336H41AA**

### **COOLING OPERATION**

# **EXPANDED PERFORMANCE DATA**

MODEL: GPC1336H41A\*

Design Subcooling, 12±3 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 8±3 °F @ the compressor suction access fitting connection.

|      |         |         |      |      |      |      |      |      |      |      |      | )              | Outdoor Ambient Temperature | Ambie | nt Tempe                | erature |      |      |      |      |        |      |        |        |        |      |
|------|---------|---------|------|------|------|------|------|------|------|------|------|----------------|-----------------------------|-------|-------------------------|---------|------|------|------|------|--------|------|--------|--------|--------|------|
|      |         |         |      | 92   | 2    |      |      | 7.   | 2    |      |      | 82             | 2                           |       |                         | 92      |      |      |      | 105  |        |      |        | 115    |        |      |
|      |         |         |      |      |      |      |      |      |      |      |      | <b>Enterin</b> | <b>Entering Indoor Wet</b>  | WetB  | <b>Bulb Temperature</b> | erature |      |      |      |      |        |      |        |        |        |      |
| IDB* | Airflow |         | 29   | 63   | 29   | 71   | 29   | 63   | 29   | 71   | 29   | 63             | 29                          | 71    | 29                      | ೞ       | 29   | 71   | 29   | 63   | 29     | 71   | 29     | 63     |        | 74   |
|      |         | MBh     | 35.7 | 36.5 | 39.0 | 41.7 | 34.9 | 35.6 | 38.1 | 40.7 | 34.0 | 34.8           | 37.2                        | 39.7  | 33.2                    | 33.9    | 36.3 | 38.8 | 31.5 | 32.2 | 34.4   | 36.8 | 29.2   | 29.9   | 31.9   | 34.1 |
|      |         | S/T     | 6.03 | 0.87 | 0.71 | 0.53 | 96.0 | 06.0 | 0.73 | 0.55 | 1.00 | 0.92           | 0.75 (                      | 99.0  | 1.00 (                  | 0.95    | 0.78 | 0.58 | 1.00 | 1.00 | 0.81 ( | 0.60 | 1.00 1 | 00'1   | 0.81 ( | 0.61 |
|      |         | Delta T | 23   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 23   | 22             | 19                          | 15    | 23                      | 22      | 19   | 15   | 21   | 22   | 19     | 15   | 20     | 20     | 18     | 14   |
|      | 1350    | KW      | 2.57 | 2.63 | 2.71 | 2.79 | 2.77 | 2.82 | 2.91 | 3.00 | 2.93 | 3.00           | 3.09                        | 3.19  | 3.08                    | 3.15    | 3.25 | 3.36 | 3.21 | 3.28 | 3.39   | 3.50 | 3.32   | 3.39   | 3.50   | 3.62 |
|      |         | AMPS    | 11.1 | 11.3 | 11.6 | 12.0 | 11.8 | 12.1 | 12.4 | 12.8 | 12.7 | 12.9           | 13.3 1                      | 13.7  | 13.4                    | 13.7    | 14.1 | 14.6 | 14.2 | 14.5 | 14.9   | 15.4 | 14.9 1 | 15.2 1 | 15.7   | 16.2 |
|      |         | HI PR   | 246  | 265  | 280  | 292  | 276  | 297  | 314  | 327  | 314  | 338            | 357                         | 372   | 358                     | 385     | 407  | 424  | 403  | 433  | 458    | 477  | 445 ,  | 479    | 202    | 527  |
|      |         | LOPR    | 110  | 117  | 128  | 136  | 116  | 124  | 135  | 144  | 121  | 128            | 140                         | 149   | 127                     | 135     | 147  | 157  | 133  | 141  | 154    | 164  | 137    | 146 1  | 160    | 170  |
|      |         | MBh     | 34.7 | 35.4 | 37.8 | 40.5 | 33.9 | 34.6 | 37.0 | 39.5 | 33.0 | 33.8           | 36.1                        | 38.6  | 32.2                    | 32.9    | 35.2 | 37.6 | 30.6 | 31.3 | 33.4   | 35.7 | 28.4   | 29.0   | 31.0   | 33.1 |
|      |         | S/T     | 0.88 | 0.83 | 0.67 | 0.50 | 0.92 | 98.0 | 0.70 | 0.52 | 0.94 | 0.88           | 0.72 (                      | 0.54  | 0.97                    | 0.91    | 0.74 | 0.55 | 1.00 | 0.94 | 0.77 ( | 0.57 | 1.00 ( | 0.95 ( | 0.77 ( | 0.58 |
|      |         | Delta T | 23   | 22   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23             | 20                          | 16    | 24                      | 23      | 20   | 16   | 23   | 23   | 20     | 16   | 22     | 21     | 18     | 15   |
| 8    | 1200    | KW      | 2.55 | 2.61 | 2.69 | 2.77 | 2.74 | 2.80 | 2.89 | 2.98 | 2.91 | 2.97           | 3.07                        | 3.17  | 3.06                    | 3.12    | 3.22 | 3.33 | 3.18 | 3.25 | 3.36   | 3.47 | 3.29   | 3.36   | 3.47   | 3.59 |
|      |         | AMPS    | 11.0 | 11.2 | 11.5 | 11.9 | 11.7 | 12.0 | 12.3 | 12.7 | 12.6 | 12.8           | 13.2                        | 13.6  | 13.3                    | 13.6    | 14.0 | 14.4 | 14.1 | 14.4 | 14.8   | 15.3 | 14.8 1 | 5.1 1  | 15.5   | 16.1 |
|      |         | H R     | 244  | 262  | 277  | 289  | 274  | 294  | 311  | 324  | 311  | 332            | 354                         | 369   | 354                     | 381     | 403  | 420  | 366  | 429  | 453 ,  | 472  | , 440  | 474    | 200    | 522  |
|      |         | LO PR   | 109  | 116  | 126  | 135  | 115  | 122  | 134  | 142  | 120  | 127            | 139                         | 148   | 126                     | 134     | 146  | 155  | 132  | 140  | 153    | 163  | 136    | 145 ,  | 158    | 168  |
|      |         | MBh     | 32.0 | 32.7 | 34.9 | 37.3 | 31.2 | 31.9 | 34.1 | 36.5 | 30.5 | 31.2           | 33.3                        | 35.6  | 29.8                    | 30.4    | 32.5 | 34.7 | 28.3 | 28.9 | 30.9   | 33.0 | 26.2   | 26.8 2 | 28.6   | 30.6 |
|      |         | S/T     | 0.85 | 0.80 | 0.65 | 0.49 | 0.88 | 0.83 | 0.67 | 0.50 | 0.91 | 0.85           | 0.69                        | 0.52  | 0.93 (                  | 0.88    | 0.71 | 0.53 | 0.97 | 0.91 | 0.74 ( | 0.55 | 0.98 ( | 0.92 ( | 0.75 ( | 0.56 |
|      |         | Delta T | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23             | 20                          | 16    | 24                      | 23      | 20   | 16   | 24   | 23   | 20     | 16   | 22     | 21     | 19     | 15   |
|      | 1050    | KW      | 2.50 | 2.55 | 2.62 | 2.70 | 2.68 | 2.73 | 2.82 | 2.91 | 2.84 | 2.90           | 2.99 3                      | 3.09  | 2.98                    | 3.05    | 3.15 | 325  | 3.11 | 3.17 | 3.28   | 3.38 | 3.21   | 3.28   | 3.39   | 3.50 |
|      |         | AMPS    | 10.7 | 11.0 | 11.3 | 11.6 | 11.5 | 11.7 | 12.0 | 12.4 | 12.3 | 12.5           | 12.9 1                      | 13.3  | 13.0                    | 13.3    | 13.7 | 14.1 | 13.7 | 14.0 | 14.4   | 14.9 | 14.4 1 | 14.7 1 | 15.2   | 15.7 |
|      |         | ΗR      | 236  | 254  | 269  | 280  | 265  | 286  | 302  | 314  | 302  | 325            | 343                         | 358   | 344                     | 370     | 391  | 407  | 387  | 416  | 439 ,  | 458  | 427    | 460 4  | 485 (  | 909  |
|      |         | LO PR   | 106  | 112  | 123  | 131  | 112  | 119  | 130  | 138  | 116  | 123            | 135                         | 143   | 122                     | 130     | 141  | 151  | 128  | 136  | 148    | 158  | 132    | 140    | 153    | 163  |

|      |      |         |      |      |     |       |      |      | •       |      |      |       | •     |      |      |         |      |      | •   | •     | •  |
|------|------|---------|------|------|-----|-------|------|------|---------|------|------|-------|-------|------|------|---------|------|------|-----|-------|--|
| 33.9 | 0.79 | 18      | 3.65 | 16.3 | 533 | 172   | 32.9 | 0.75 | 19      | 3.62 | 16.2 | 527   | 170   | 30.3 | 0.72 | 19      | 3.53 | 15.8 | 511 | 165   |  |
| 31.7 | 0.97 | 21      | 3.53 | 15.8 | 511 | 161   | 30.8 | 0.93 | 22      | 3.50 | 15.7 | 202   | 160   | 28.4 | 0.89 | 22      | 3.42 | 15.3 | 490 | 155   |  |
| 30.3 | 1.00 | 21      | 3.42 | 15.3 | 483 | 148   | 29.4 | 1.00 | 23      | 3.39 | 15.2 | 479   | 146   | 27.2 | 66.0 | 24      | 3.31 | 14.8 | 464 | 142   |  |
| 29.7 | 1.00 | 20      | 3.35 | 15.0 | 449 | 139   | 28.9 | 1.00 | 22      | 3.32 | 14.9 | 445   | 137   | 26.6 | 1.00 | 23      | 3.24 | 14.5 | 431 | 133   |  |
| 36.6 | 0.78 | 19      | 3.53 | 15.5 | 482 | 166   | 35.5 | 0.75 | 20      | 3.50 | 15.4 | 477   | 164   | 32.8 | 0.72 | 21      | 3.41 | 15.0 | 463 | 159   |  |
| 34.3 | 0.96 | 22      | 3.41 | 15.0 | 462 | 156   | 33.3 | 0.92 | 23      | 3.39 | 14.9 | 458   | 154   | 30.7 | 0.89 | 24      | 3.30 | 14.5 | 444 | 150   |  |
| 32.7 | 1.00 | 22      | 3.31 | 14.6 | 438 | 143   | 31.8 | 1.00 | 24      | 3.28 | 14.5 | 433   | 141   | 29.3 | 0.98 | 25      | 3.20 | 14.1 | 420 | 137   |  |
| 32.1 | 1.00 | 22      | 3.24 | 14.3 | 407 | 134   | 31.2 | 1.00 | 24      | 3.21 | 14.2 | 403   | 133   | 28.8 | 1.00 | 25      | 3.13 | 13.8 | 391 | 129   |  |
| 38.5 | 0.75 | 20      | 3.38 | 14.7 | 428 | 158   | 37.4 | 0.72 | 21      | 3.36 | 14.6 | 424   | 157   | 34.5 | 69.0 | 21      | 327  | 14.2 | 411 | 152   |  |
| 36.1 | 0.93 | 23      | 3.28 | 14.2 | 411 | 149   | 35.0 | 0.89 | 24      | 3.25 | 14.1 | 407   | 147   | 32.3 | 0.85 | 24      | 3.17 | 13.8 | 394 | 143   | n power                                      |
| 34.4 | 1.00 | 23      | 3.18 | 13.8 | 389 | 136   | 33.4 | 0.98 | 22      | 3.15 | 13.7 | 382   | 135   | 30.9 | 0.95 | 26      | 3.07 | 13.4 | 374 | 131   | KW = Total system power                      |
| 33.8 | 1.00 | 23      | 3.11 | 13.5 | 361 | 128   | 32.8 | 1.00 | 22      | 3.08 | 13.4 | 328   | 127   | 30.3 | 0.98 | 56      | 3.01 | 13.1 | 347 | 123   | KW = To                                      |
| 39.4 | 0.73 | 20      | 3.22 | 13.9 | 376 | 151   | 38.3 | 0.70 | 20      | 3.19 | 13.7 | 372   | 149   | 35.4 | 0.67 | 21      | 3.11 | 13.4 | 361 | 145   |  |
| 37.0 | 06.0 | 23      | 3.12 | 13.4 | 361 | 142   | 35.9 | 0.86 | 24      | 3.09 | 13.3 | 327   | 140   | 33.1 | 0.83 | 24      | 3.02 | 13.0 | 346 | 136   | rature                                       |
| 35.3 | 1.00 | 24      | 3.02 | 13.0 | 342 | 130   | 34.3 | 0.95 | 25      | 3.00 | 12.9 | 338   | 128   | 31.6 | 0.92 | 25      | 2.92 | 12.6 | 328 | 125   | Tempe  |
| 34.6 | 1.00 | 24      | 2.96 | 12.8 | 317 | 122   | 33.6 | 0.98 | 22      | 2.93 | 12.7 | 314   | 121   | 31.0 | 0.95 | 56      | 2.86 | 12.4 | 305 | 117   | Ory Bulb                                     |
| 40.4 | 0.71 | 20      | 3.03 | 12.9 | 331 | 145   | 39.2 | 0.68 | 20      | 3.00 | 12.8 | 327   | 144   | 36.2 | 0.65 | 21      | 2.93 | 12.5 | 318 | 139   | ring Indoor Dry Bulb Temperature             |
| 37.9 | 0.88 | 23      | 2.93 | 12.5 | 317 | 136   | 36.8 | 0.84 | 24      | 2.91 | 12.4 | 314   | 135   | 33.9 | 0.81 | 24      | 2.84 | 12.1 | 302 | 131   | intering                                     |
| 36.2 | 0.97 | 24      | 2.85 | 12.2 | 300 | 125   | 35.1 | 0.93 | 25      | 2.82 | 12.1 | 297   | 124   | 32.4 | 0.89 | 25      | 2.76 | 11.8 | 288 | 120   | IDB: Ente                                    |
| 35.5 | 1.00 | 24      | 2.79 | 11.9 | 279 | 117   | 34.4 | 0.96 | 25      | 2.77 | 11.8 | 276   | 116   | 31.8 | 0.93 | 26      | 2.70 | 11.5 | 268 | 113   |  |
| 41.4 | 0.69 | 19      | 2.81 | 12.1 | 295 | 137   | 402  | 0.65 | 20      | 2.79 | 12.0 | 292   | 136   | 37.1 | 0.63 | 20      | 2.73 | 11.7 | 283 | 132   | tions  |
| 38.8 | 0.85 | 22      | 2.73 | 11.7 | 283 | 129   | 37.7 | 0.81 | 23      | 2.71 | 11.6 | 280   | 128   | 34.8 | 0.78 | 24      | 2.64 | 11.3 | 271 | 124   | g Condi                                      |
| 37.0 | 0.94 | 24      | 2.65 | 11.4 | 268 | 118   | 32.9 | 0.89 | 25      | 2.63 | 11.3 | 265   | 117   | 33.2 | 0.86 | 25      | 2.57 | 11.0 | 257 | 113   | Ratin  |
| 36.3 | 0.97 | 24      | 2.59 | 11.2 | 249 | 111   | 35.3 | 0.93 | 25      | 2.57 | 11.1 | 246   | 110   | 32.6 | 0.89 | 25      | 2.51 | 10.8 | 239 | 107   | s is AHF                                     |
| MBh  | S/T  | Delta T | ΚM   | AMPS | H R | LO PR | MBh  | S/T  | Delta T | ΚM   | AMPS | HI PR | LO PR | MBh  | S/T  | Delta T | ΚM   | AMPS | H R | LO PR | NOTE: Shaded areas is AHRI Rating Conditions |
|      |      |         | 1350 |      |     |       |      |      |         | 1200 |      |       |       |      |      |         | 1050 |      |     |       | NOTE: Sh                                     |
|      |      |         |      |      |     |       |      |      |         | 82   |      |       |       |      |      |         |      |      |     |       | *  |
|      |      |         |      |      |     |       |      |      |         |      |      |       |       |      |      |         |      |      |     |       |  |

<sup>\*</sup> NO1E: Shaded areas is AHRI Rating Conditions IDB: Entering Indoor Dry Bulb Temperature High and low pressures are measured at the liquid and suction access fittings.

AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

### **GPC1342H41AA**

### **COOLING OPERATION**

# **EXPANDED PERFORMANCE DATA**

Design Subcooling, 12±3 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 8±3 °F @ the compressor suction access fitting connection.

|      |         |         |      |      |      |     |      |      |           |    |      | ٥               | Jutdoor | · Ambie | Outdoor Ambient Temperature          | oerature. |      |     |      |        |      |    |         |         |      | ٦  |
|------|---------|---------|------|------|------|-----|------|------|-----------|----|------|-----------------|---------|---------|--------------------------------------|-----------|------|-----|------|--------|------|----|---------|---------|------|----|
|      |         |         |      | 9    | 92   |     |      | 22   | 2         |    |      | 85              |         |         |                                      | 36        | 2    |     |      | 105    |      |    |         | 115     |      |    |
|      |         |         |      |      |      |     |      |      |           |    | F    | <u>=nterinç</u> | oopul   | r Wet E | Entering Indoor Wet Bulb Temperature | peratur   | ė    |     |      |        |      |    |         |         |      |    |
| IDB* | Airflow |         | 29   | 63   | 29   | 1.1 | 29   | 63   | <b>29</b> | 71 | 29   | 63              | 29      | 1.1     | 29                                   | ස         | 29   | 7.1 | 29   | 63     | 29   | 71 | 29 6    | 93 (    | . 29 | 71 |
|      |         | MBh     | 40.2 | 41.6 | 45.6 |     | 39.2 | 40.7 | 44.6      |    | 38.3 | 39.7            | 43.5    |         | 37.4                                 | 38.7      | 42.4 |     | 35.5 | 36.8   | 40.3 |    | 32.9 34 | 34.1 3  | 37.3 |    |
|      |         | S/T     | 0.77 | 0.65 | 0.45 | -   | 08.0 | 0.67 | 0.46      | -  | 0.82 | 69.0            | 0.48    | -       | 0.85                                 | 0.71      | 0.49 | -   | 0.88 | 0.74 ( | 0.51 | -  | 0.89 0. | 0.74 0  | 0.51 |    |
|      |         | Delta T | 18   | 16   | 12   |     | 18   | 16   | 12        |    | 18   | 16              | 12      |         | 18                                   | 16        | 12   |     | 18   | 16     | 12   |    | 17 1    | , 21    | 11   |    |
|      | 1580    | ΚW      | 2.77 | 2.83 | 2.91 | 1   | 2.97 | 3.03 | 3.12      |    | 3.14 | 3.20            | 3.30    | -       | 3.29                                 | 3.36      | 3.46 | 1   | 3.42 | 3.49   | 3.60 | -  | 3.53 3. | 3.60 3  | 3.72 |    |
|      |         | AMPS    | 12.3 | 12.5 | 12.9 | -   | 13.1 | 13.4 | 13.7      | -  | 14.0 | 14.3            | 14.7    | -       | 14.8                                 | 15.1      | 15.6 | -   | 15.6 | 16.0   | 16.4 | •  | 16.4 16 | 16.8 1  | 17.3 |    |
|      |         | H PR    | 225  | 242  | 256  | -   | 252  | 272  | 287       | -  | 287  | 309             | 326     | -       | 327                                  | 352       | 372  | -   | 368  | 968    | 418  |    | 406 4   | 437 4   | 462  |    |
|      |         | LO PR   | 110  | 117  | 128  |     | 117  | 124  | 135       |    | 121  | 129             | 141     |         | 127                                  | 135       | 148  | ŀ   | 133  | 142    | 155  | -  | 138 1   | 147 1   | 160  |    |
|      |         | MBh     | 39.0 | 40.4 | 44.3 |     | 38.1 | 39.5 | 43.3      |    | 37.2 | 38.5            | 42.2    |         | 36.3                                 | 37.6      | 41.2 |     | 34.5 | 35.7   | 39.1 |    | 31.9 33 | 33.1 3  | 36.3 |    |
|      |         | S∕T     | 0.74 | 0.62 | 0.43 |     | 0.77 | 0.64 | 0.44      | ŀ  | 0.78 | 99.0            | 0.45    |         | 0.81                                 | 0.68      | 0.47 |     | 0.84 | 0.70   | 0.49 | ,  | 0.85 0. | 0.71 0  | 0.49 |    |
|      |         | Delta T | 19   | 16   | 12   | -   | 19   | 16   | 12        | -  | 19   | 16              | 12      | -       | 19                                   | 17        | 13   | -   | 19   | 16     | 12   |    | 18 1    | , 21    | 12   |    |
| 20   | 1410    | ΚM      | 2.75 | 2.81 | 2.89 | 1   | 2.95 | 3.00 | 3.09      | -  | 3.12 | 3.18            | 3.27    | -       | 3.27                                 | 3.33      | 3.43 | -   | 3.39 | 3.46   | 3.57 | -  | 3.50 3. | 3.58 3  | 3.69 |    |
|      |         | AMPS    | 12.2 | 12.5 | 12.8 | -   | 13.0 | 13.3 | 13.6      | -  | 13.9 | 14.2            | 14.6    | -       | 14.7                                 | 15.0      | 15.4 | -   | 15.5 | 15.8   | 16.3 | •  | 16.3 16 | 16.6 1  | 17.1 |    |
|      |         | H R     | 223  | 240  | 253  | -   | 250  | 569  | 284       | -  | 284  | 306             | 323     | -       | 324                                  | 348       | 368  | -   | 364  | 395    | 414  |    | 402 4   | 433 4   | 457  |    |
|      |         | LO PR   | 109  | 116  | 127  | -   | 115  | 123  | 134       | 1  | 120  | 128             | 139     | -       | 126                                  | 134       | 146  | -   | 132  | 140    | 153  |    | 137 1.  | 145 1   | 159  |    |
|      |         | MBh     | 36.0 | 37.3 | 40.9 | -   | 35.2 | 36.4 | 39.9      | -  | 34.3 | 35.6            | 39.0    | -       | 33.5                                 | 34.7      | 38.0 | -   | 31.8 | 33.0   | 36.1 | -  | 29.5 30 | 30.5    | 33.5 |    |
|      |         | S/T     | 0.71 | 0.59 | 0.41 | -   | 0.74 | 0.62 | 0.43      | -  | 0.76 | 0.63            | 0.44    | -       | 0.78                                 | 0.65      | 0.45 | -   | 0.81 | 0.68   | 0.47 | -  | 0.82 0. | 0.68 0. | 0.47 |    |
|      |         | Delta T | 19   | 16   | 12   | -   | 19   | 17   | 13        |    | 19   | 17              | 13      | -       | 19                                   | 17        | 13   | -   | 19   | 17     | 13   | -  | 18 1    | , 91    | 12   |    |
|      | 1240    | KW      | 2.69 | 2.74 | 2.82 | -   | 2.88 | 2.94 | 3.02      | -  | 3.04 | 3.11            | 3.20    | -       | 3.19                                 | 3.25      | 3.35 | •   | 3.31 | 3.38   | 3.49 |    | 3.42 3. | 3.49 3. | 3.60 |    |
|      |         | AMPS    | 12.0 | 12.2 | 12.5 | -   | 12.7 | 13.0 | 13.3      | -  | 13.6 | 13.9            | 14.3    | -       | 14.4                                 | 14.7      | 15.1 | -   | 15.2 | 15.5   | 15.9 | -  | 15.9 16 | 16.2 10 | 16.7 |    |
|      |         | ΗR      | 216  | 233  | 246  | -   | 242  | 261  | 275       | -  | 276  | 297             | 313     | -       | 314                                  | 338       | 357  | -   | 353  | 380    | 401  | -  | 390 4   | 420 4   | 444  |    |
|      |         | LO PR   | 106  | 113  | 123  |     | 112  | 119  | 130       |    | 116  | 124             | 135     |         | 122                                  | 130       | 142  |     | 128  | 136    | 149  |    | 132 1   | 141 1   | 154  |    |

|      |      |         |      |      |          |       |      |      |         |      | -        | _   |       |      | _    |         | _    | -    |       | _     |   |
|------|------|---------|------|------|----------|-------|------|------|---------|------|----------|-----|-------|------|------|---------|------|------|-------|-------|---|
| 40.0 | 0.44 | 10      | 3.87 | 18.0 | 487      | 172   | 38.8 | 0.42 | 11      | 3.84 | 17.8     | 482 | 171   | 35.8 | 0.40 | 11      | 3.74 | 17.4 | 467   | 165   |   |
| 37.3 | 0.68 | 15      | 3.75 | 17.4 | 467      | 162   | 36.2 | 0.65 | 15      | 3.72 | 17.3     | 462 | 160   | 33.4 | 0.63 | 16      | 3.63 | 16.8 | 448   | 155   |   |
| 34.4 | 06.0 | 18      | 3.63 | 16.9 | 442      | 148   | 33.4 | 98.0 | 19      | 3.60 | 16.8     | 437 | 147   | 30.9 | 0.83 | 19      | 3.52 | 16.4 | 424   | 142   |   |
| 33.4 | 1.00 | 19      | 3.56 | 16.6 | 411      | 139   | 32.5 | 96.0 | 20      | 3.53 | 16.4     | 407 | 138   | 30.0 | 0.93 | 21      | 3.45 | 16.0 | 394   | 134   |   |
| 43.2 | 0.44 | 11      | 3.74 | 17.1 | 440      | 167   | 41.9 | 0.42 | 11      | 3.71 | 17.0     | 436 | 165   | 38.7 | 0.40 | 12      | 3.62 | 16.5 | 423   | 160   |   |
| 40.2 | 0.68 | 16      | 3.63 | 16.5 | 422      | 156   | 39.1 | 0.65 | 16      | 3.60 | 16.4     | 418 | 155   | 36.1 | 0.62 | 17      | 3.51 | 16.0 | 406   | 150   |   |
| 37.2 | 0.90 | 19      | 3.52 | 16.1 | 400      | 143   | 36.1 | 0.85 | 20      | 3.49 | 16.0     | 396 | 142   | 33.3 | 0.82 | 20      | 3.41 | 15.6 | 384   | 138   |   |
| 36.1 | 1.00 | 21      | 3.45 | 15.8 | 372      | 135   | 35.1 | 96.0 | 22      | 3.42 | 15.6     | 368 | 133   | 32.4 | 0.92 | 22      | 3.34 | 15.3 | 357   | 129   |   |
| 45.5 | 0.42 | 11      | 3.60 | 16.2 | 392      | 159   | 44.1 | 0.40 | 12      | 3.57 | 16.1     | 388 | 157   | 40.7 | 0.39 | 12      | 3.48 | 15.7 | 376   | 153   |   |
| 42.4 | 0.65 | 16      | 3.49 | 15.7 | 375      | 149   | 41.1 | 0.62 | 17      | 3.46 | 15.6     | 372 | 148   | 38.0 | 09.0 | 17      | 3.38 | 15.2 | 360   | 143   |   |
| 39.1 | 98.0 | 20      | 3.38 | 15.3 | 355      | 137   | 38.0 | 0.82 | 20      | 3.36 | 15.1     | 352 | 135   | 35.1 | 0.79 | 7       | 3.28 | 14.8 | 341   | 131   |   |
| 38.0 | 0.97 | 21      | 3.32 | 15.0 | 330      | 128   | 36.9 | 0.92 | 22      | 3.29 | 14.8     | 327 | 127   | 34.1 | 0.89 | 22      | 3.22 | 14.5 | 317   | 123   | 0 000111                                |
| 46.6 | 0.41 | 11      | 3.43 | 15.3 | 344      | 151   | 45.2 | 0.39 | 11      | 3.40 | 15.2     | 340 | 150   | 41.8 | 0.37 | 12      | 3.32 | 14.8 | 330   | 145   | 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 43.4 | 0.63 | 16      | 3.32 | 14.8 | 330      | 142   | 42.2 | 09.0 | 17      | 3.30 | 14.7     | 326 | 141   | 38.9 | 0.58 | 17      | 3.22 | 14.4 | 317   | 136   | ĺ                                       |
| 40.1 | 0.84 | 20      | 3.23 | 14.4 | 312      | 130   | 38.9 | 0.80 | 20      | 3.20 | 14.3     | 309 | 129   | 32.9 | 0.77 | 20      | 3.13 | 14.0 | 300   | 125   | 0:00                                    |
| 39.0 | 0.94 | 21      | 3.16 | 14.1 | 290      | 122   | 37.8 | 0.89 | 22      | 3.14 | 14.0     | 287 | 121   | 34.9 | 0.86 | 22      | 3.07 | 13.7 | 279   | 117   | ين ادماده                               |
| 47.7 | 0.40 | 11      | 3.23 | 14.3 | 302      | 146   | 46.3 | 0.38 | 11      | 3.21 | 14.2     | 299 | 144   | 42.8 | 0.37 | 12      | 3.14 | 13.8 | 290   | 140   | J. L.                                   |
| 44.5 | 0.62 | 16      | 3.14 | 13.8 | 290      | 137   | 43.2 | 0.59 | 17      | 3.12 | 13.7     | 287 | 135   | 39.9 | 0.57 | 17      | 3.04 | 13.4 | 278   | 131   | 2                                       |
| 41.1 | 0.82 | 20      | 3.05 | 13.5 | 274      | 125   | 39.9 | 0.78 | 20      | 3.03 | 13.4     | 272 | 124   | 36.8 | 0.75 | 20      | 2.96 | 13.1 | 264   | 120   |   |
| 39.9 | 0.91 | 21      | 2.99 | 13.2 | 255      | 118   | 38.7 | 0.87 | 22      | 2.97 | 13.1     | 252 | 117   | 35.8 | 0.84 | 22      | 2.90 | 12.8 | 245   | 113   |   |
| 48.9 | 0.38 | 11      | 3.02 | 13.4 | 269      | 138   | 47.4 | 0.37 | 11      | 2.99 | 13.3     | 267 | 136   | 43.8 | 0.35 | 11      | 2.93 | 13.0 | 259   | 132   | 9                                       |
| 45.5 | 09.0 | 16      | 2.93 | 13.0 | 258      | 129   | 44.2 | 0.57 | 16      | 2.91 | 12.9     | 256 | 128   | 40.8 | 0.55 | 17      | 2.84 | 12.6 | 248   | 124   | 0,000                                   |
| 42.1 | 0.79 | 19      | 2.85 | 12.6 | 245      | 119   | 40.8 | 0.75 | 20      | 2.83 | 12.6     | 242 | 117   | 37.7 | 0.72 | 20      | 2.76 | 12.3 | 235   | 114   | Ę.                                      |
| 40.9 | 98.0 | 21      | 2.79 | 12.4 | 227      | 111   | 39.7 | 0.84 | 22      | 2.77 | 12.3     | 225 | 110   | 36.6 | 0.81 | 22      | 2.71 | 12.0 | 218   | 107   | 2                                       |
| MBh  | S/T  | Delta T | ΚW   | AMPS | HR       | LO PR | MBh  | S/T  | Delta T | KW   | AMPS     | HR  | LO PR | MBh  | S/T  | Delta T | KW   | AMPS | HI PR | LO PR | * IOO. Total and an Iou I Total         |
|      |      |         | 1580 |      | <u> </u> |       |      |      |         | 1410 | <u> </u> | ·   |       |      |      |         | 1240 |      |       |       | *                                       |
|      |      |         |      |      |          |       |      |      |         | 75   |          |     |       |      |      |         |      |      |       |       |   |

NOTE: Shaded area is ACCA (TVA) conditions High and low pressures are measured at the liquid and suction access fittings. \*IDB: Entering Indoor Dry Bulb Temperature

MODEL: GPC1342H41A\*

### **GPC1342H41AA**

### **EXPANDED PERFORMANCE DATA**

MODEL: GPC1342H41A\*

**COOLING OPERATION** 

Design Subcooling, 12±3 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 8±3 °F @ the compressor suction access fitting connection.

| 105  |      |         |         |      |      |      |      |      |      |      |      |     | J       | Jutdoor | Ambie    | Outdoor Ambient Temperature | erature |      |      |      |      |     |      |        |        |        |      |
|--|------|---------|---------|------|------|------|------|------|------|------|------|-----|---------|---------|----------|-----------------------------|---------|------|------|------|------|-----|------|--------|--------|--------|------|
| High    |      |         |         |      | 9    | 5    |      |      | 7.   | 2    |      |     | 82      |         |          |                             | 36      |      |      |      | 10   | 2   |      |        | 115    |        |      |
| MRN   MRN   416   425   454   455   406   415   445   426   427   428   427   428   427   428   427   428   427   428   427   428   427   428   428   427   428  |      |         |         |      |      |      |      |      |      |      |      | Е   | ntering | ludooi  | · Wet B  | ulb Tem                     | peratur | 6    |      |      |      |     |      |        |        |        |      |
| MBh   416   426   454   485   406   415   413   414   396   40.5   433   463   387   395   422   451   367   376   401     MBh   416   42.5   454   485   40.6   41.5   41.3   41.4   41.3   41.5   41.3   41.3   41.5   41.3    | IDB* | Airflow |         | 29   | 63   | 29   | 71   | 29   | 63   | 29   | 71   | 29  | 63      | 29      | 71       | 29                          | ස       | 67   | 71   | 29   | 63   | 29  | 71   | 29     | 63     | 29     | 71   |
| ST 10.97 0.91 0.74 0.55 1.00 0.94 0.76 0.57 1.00 0.96 0.78 0.59 1.00 1.00 0.81 0.00 1.00 0.81 0.70 0.94 0.76 0.76 0.70 0.94 0.76 0.57 1.00 0.96 0.78 0.59 1.00 1.00 0.81 0.00 1.00 0.81 0.00 1.00 0.81 0.00 1.00 0.81 0.00 1.00 0.81 0.00 1.00 0.81 0.00 1.00 0.81 0.00 1.00 0.81 0.00 1.00 0.81 0.00 1.00 0.81 0.00 1.00 0.81 0.82 0.70 0.82 0.80 0.70 0.82 0.82 0.70 0.83 0.70 0.83 0.70 0.83 0.70 0.85 0.70 0.83 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.7   |      |         | MBh     | 41.6 | 42.5 | 45.4 | 48.5 | 40.6 | 41.5 | 44.3 | 47.4 |     |         |         | _        | 38.7                        | 39.5    | 42.2 | 45.1 | 36.7 | 37.6 |     | 42.9 | 34.0 3 | 34.8   | 37.2   | 39.7 |
| This bolinary   Line   Line  |      |         | S/T     | 0.97 | 0.91 | 0.74 | 0.55 | 1.00 | 0.94 | 92.0 | 0.57 |     |         |         | 0.59     | 1.00                        | 1.00    | 0.81 | 09.0 | 1.00 | 1.00 |     | 0.63 | 1.00 1 | 00.1   | 0.85 ( | 0.63 |
| 1580   KW   2.81   287   2.96   3.04   3.01   3.07   3.16   3.26   3.16   3.25   3.36   3.45   3.34   3.41   3.52   3.36   3.45   3.65   3.46   3.65   3.46   3.46   3.46   3.46   3.46   3.46   3.46   3.46   3.46   3.46   3.46   3.46   3.46   3.46   3.47   3.46   3.4 |      |         | Delta T | 23   | 22   | 19   | 16   | 24   | 23   | 20   | 16   | 23  | 23      | 20      | 16       | 23                          | 23      | 20   | 16   | 21   | 22   | 20  | 16   | 20     | 20     | 18     | 15   |
| AWPS         125         12.7         13.1         13.6         13.9         14.4         14.3         14.5         14.9         15.4         15.4         15.4         15.4         15.4         15.4         15.4         15.4         15.4         15.4         15.4         14.5         14.5         14.5         14.5         15.4   |      | 1580    | KW      | 2.81 | 2.87 | 2.95 | 3.04 | 3.01 | 3.07 |      | 3.26 |     |         |         | $\vdash$ |                             | 3.41    | 3.52 | 3.63 | 3.47 | 3.55 |     | 3.77 | 3.59 3 | 3.66   | 3.78   | 3.90 |
| HIPR 230 247 261 272 258 277 293 305 293 315 333 347 334 359 359 379 395 375 404 427 160 PR 113 120 131 139 149 126 138 147 124 131 144 153 130 138 141 161 161 136 145 158 158 159 150 PR 113 120 131 139 149 125 138 142 131 144 153 130 138 141 141 141 141 151 141 141 141 141 141   |      |         | AMPS    | 12.5 | 12.7 | 13.1 | 13.5 | 13.3 | 13.6 | 13.9 | 14.4 |     | 14.5    |         | Н        | 15.1                        | 15.4    | 15.8 | 16.3 | 15.9 | 16.2 |     | 17.2 | 16.7 1 | 17.0   | 7.5    | 18.1 |
| MBh   40.4 41.3   44.1   47.1   39.4   40.3   43.1   46.0   38.5   39.3   42.0   44.9   37.6   38.4   41.0   41.0   41.3   44.1   47.1   39.4   40.3   43.1   46.0   38.5   39.3   42.0   44.9   37.6   38.4   41.0   41.0   41.3   44.1   47.1   39.4   40.3   43.1   46.0   38.5   39.3   42.0   44.9   37.6   38.4   41.0   41.0   41.3   41.1   41.1   41.1   41.4   41.8   41.3   41.1   41.4   41.8   41.3   41.3   41.1   41.4   41.8   41.3   41.3   41.3   41.3   41.3   41.3   41.3   41.4   41.8   41.3   41. |      |         | H<br>R  | 230  | 247  | 261  | 272  | 258  | 277  | 293  | 305  | 293 | 315     |         |          | 334                         | 328     | 379  | 395  | 375  | 404  |     | 445  | 415 4  | , 944  | 471 ,  | 492  |
| MBh 40.4 41.3 44.1 47.1 39.4 40.3 43.1 46.0 38.5 39.3 42.0 44.9 37.6 38.4 41.0 43.8 35.7 36.5 39.0 39.   ST 0.92 0.86 0.70 0.53 0.95 0.89 0.73 0.54 0.98 0.92 0.75 0.56 1.00 0.95 0.77 0.58 1.00 0.98 0.80 0.80   Delta T 24 23 20 16 25 24 20 16 25 24 20 16 25 24 20 16 24 24 24 27 16 23 3.38 3.49 3.60 3.45 3.52 3.63   AMPS 12.4 12.6 13.0 13.4 13.2 13.5 13.8 14.3 14.1 14.4 14.8 15.3 15.0 15.3 15.0 15.3 15.0 15.3 15.0 15.3 15.0 14.0 14.0 14.4 14.8 15.3 15.0 15.3 15.0 15.3 15.3 15.3 15.3 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0  |      |         | LO PR   | 113  | 120  | 131  | 139  | 119  | 126  | 138  | 147  | 124 | 131     | 144     | Н        | 130                         | 138     | 151  | 161  | 136  | 145  |     | 168  | . 141  | 150    | 163    | 174  |
| ST 0.92 0.86 0.70 0.53 0.95 0.89 0.73 0.54 0.98 0.95 0.75 0.56 1.00 0.95 0.77 0.56 1.00 0.95 0.77 0.58 1.00 0.98 0.80 0.80 0.80 0.80 0.80 0.80 0   |      |         | MBh     | 40.4 | 41.3 | 1.4  | 47.1 |      | 40.3 | 43.1 | 46.0 |     |         |         | _        |                             | 38.4    | 41.0 | 43.8 | 35.7 | 36.5 |     | 41.6 | 33.0   | 33.8   | 36.1   | 38.6 |
| Delta T 24 23 20 16 25 24 20 16 25 24 20 16 25 24 20 16 25 24 20 16 25 24 20 20 16 24 24 24 24 24 25 3.83 3.49 3.60 3.45 3.60 3.60 3.45 3.60 3.60 3.40 3.60 3.60 3.40 3.60 3.60 3.40 3.60 3.60 3.60 3.60 3.60 3.60 3.60 3.6  |      |         | S/T     | 0.92 | 0.86 | 0.70 | 0.53 | 0.95 | 0.89 |      | 0.54 |     |         |         | <u> </u> |                             | 0.95    | 0.77 | 0.58 | 1.00 | 0.98 |     | 0.60 | 1.00   | ) 66.0 | 0.81 ( | 09.0 |
| 4410         KW         2.79         2.86         2.99         3.04         3.23         3.43         3.32         3.43         3.32         3.49         3.69         3.05         3.14         3.23         3.43         3.33         3.49         3.60         3.52         3.62         3.62         3.62         3.44         3.62         3.69         3.62         3.69         3.62         3.69         3.62         3.69         3.62         3.69         3.62         3.69         3.62         3.69         3.62         3.69         3.62         3.69         3.62         3.69         3.62         3.69         3.62         3.69         3.62         3.69         3.62         3.69         3.62         3.69         3.62         3.69         3.69         3.69         3.62         3.69         3.69         3.69         3.69         3.69         3.69         3.62         3.69         3.62         3.69         3.62         3.69         3  |      |         | Delta T | 24   | 23   | 20   | 16   | 25   | 24   | 20   | 16   | 25  | 24      | 20      | 16       | 24                          | 24      | 21   | 16   | 23   | 23   | 20  | 16   | 22     | 22     | 19     | 15   |
| AMPS         12.4         12.6         13.0         13.4         13.2         13.6         14.3         14.4         14.8         15.3         15.0         15.3         15.7         16.2         15.8         16.1         16.5         16.7         16.5         16.7         16.2         16.2         16.7         16.2         16.7         16.5         16.7         16.2         16.2 <th< th=""><th>8</th><td>1410</td><td>KW</td><td>2.79</td><td>2.85</td><td>2.93</td><td>3.02</td><td></td><td>3.05</td><td></td><td>3.23</td><td></td><td></td><td></td><td>H</td><td></td><td>3.38</td><td>3.49</td><td>3.60</td><td>3.45</td><td>3.52</td><td></td><td>3.74</td><td>3.56 3</td><td>3.63</td><td>3.75</td><td>3.87</td></th<>   | 8    | 1410    | KW      | 2.79 | 2.85 | 2.93 | 3.02 |      | 3.05 |      | 3.23 |     |         |         | H        |                             | 3.38    | 3.49 | 3.60 | 3.45 | 3.52 |     | 3.74 | 3.56 3 | 3.63   | 3.75   | 3.87 |
| HIPR 227 245 258 269 255 274 290 302 290 312 330 344 330 356 375 352 372 400 422 400 LOPR 111 119 129 138 118 125 137 146 122 130 142 151 129 137 149 159 137 140 129 138 118 125 137 146 122 130 142 151 129 137 149 159 137 149 159 137 140 129 137 140 120 142 121 121 121 121 121 121 121 121 121  |      |         | AMPS    | 12.4 | 12.6 | 13.0 | 13.4 | 13.2 | 13.5 | 13.8 | 14.3 |     |         |         | Н        | 15.0                        | 15.3    | 15.7 | 16.2 | 15.8 | 16.1 |     | 17.1 | 16.6 1 | 16.9   | 17.4   | 18.0 |
| LOPR         111         119         129         138         142         151         151         130         142         151         159         137         149         150         135         143         156         135         143         156         143         156         143         150         140         151         149         150         135         143         150         143         156         140         150         140         150         140         150         140         140         140         150         140         140         140         150         140         150         140         140         140         140         150         140         150         140         150         150         140         150         150         140         150         140         150 <th></th> <td></td> <td>HI PR</td> <td>227</td> <td>245</td> <td>258</td> <td>269</td> <td>255</td> <td>274</td> <td>290</td> <td>302</td> <td>290</td> <td>312</td> <td></td> <td></td> <td>330</td> <td>356</td> <td>375</td> <td>392</td> <td>372</td> <td>400</td> <td></td> <td>440</td> <td>411 4</td> <td>442</td> <td>467</td> <td>487</td>   |      |         | HI PR   | 227  | 245  | 258  | 269  | 255  | 274  | 290  | 302  | 290 | 312     |         |          | 330                         | 356     | 375  | 392  | 372  | 400  |     | 440  | 411 4  | 442    | 467    | 487  |
| MBh         37.3         38.1         40.7         43.5         36.4         37.2         36.3         38.8         41.5         34.7         35.4         37.8         40.5         32.9         33.6         36.0           ST         0.89         0.83         0.68         0.70         0.52         0.94         0.88         0.72         0.54         0.97         0.91         0.74         0.56         1.01         0.96         0.77           DeltaT         2.5         2.3         2.0         16         2.5         2.4         2.1         1.7         2.5         2.4         2.1         1.7         2.5         2.4         2.1         1.7         2.5         2.4         2.1         1.7         2.5         2.4         2.1         1.7         2.5         2.4         2.1         1.7         2.5         2.4         2.1         1.7         2.5         2.4         2.1         1.7         2.5         2.4         2.1         1.7         2.5         2.4         2.1         1.7         2.5         2.4         2.1         1.7         2.5         2.4         2.1         2.7         2.4         2.1         2.7         2.1         2.2         2.4 <td< th=""><th></th><th></th><th>LO PR</th><th>111</th><th>119</th><th>129</th><th>138</th><th>118</th><th>125</th><th>137</th><th>146</th><th>122</th><th>130</th><th></th><th>151</th><th>129</th><th>137</th><th>149</th><th>159</th><th>135</th><th>143</th><th>156</th><th>167</th><th>139</th><th>148</th><th>162</th><th>172</th></td<>  |      |         | LO PR   | 111  | 119  | 129  | 138  | 118  | 125  | 137  | 146  | 122 | 130     |         | 151      | 129                         | 137     | 149  | 159  | 135  | 143  | 156 | 167  | 139    | 148    | 162    | 172  |
| ST 0.89 0.83 0.68 0.51 0.92 0.86 0.70 0.52 0.94 0.88 0.72 0.54 0.97 0.91 0.74 0.56 1.01 0.95 0.77 0.77 0.84 0.89 0.72 0.84 0.97 0.97 0.91 0.74 0.56 1.01 0.95 0.77 0.74 0.58 0.77 0.74 0.58 0.77 0.74 0.58 0.77 0.74 0.58 0.77 0.74 0.58 0.77 0.74 0.58 0.77 0.74 0.58 0.77 0.74 0.58 0.77 0.74 0.58 0.77 0.74 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75   |      |         | MBh     | 37.3 | 38.1 | 40.7 | 43.5 | 36.4 | 37.2 | _    | 42.5 |     |         |         | ш        |                             | 35.4    | 37.8 | 40.5 | 32.9 | 33.6 |     | 38.4 | 30.5   | 31.2   | 33.3   | 35.6 |
| Delta T         25         23         20         16         25         24         21         17         25         24         21         17         25         24         21         17         25         24         21         17         25         24         21         25         24         21         17         25         28         20         216         3.09         3.15         3.25         3.35         3.24         3.31         3.41         3.51         3.24         3.31         3.41         3.54   |      |         | S/T     | 0.89 | 0.83 | 0.68 | 0.51 |      | 98.0 |      | 0.52 |     |         |         |          |                             | 0.91    | 0.74 | 0.56 | 1.01 | 0.95 |     | 0.58 | 1.02 C | 0.96   | 0.78 ( | 0.58 |
| KW         2.73         2.86         2.96         2.92         2.98         3.07         3.16         3.09         3.15         3.25         3.35         3.24         3.31         3.41         3.51         3.37         3.44         3.54         3  |      |         | Delta T | 22   | 23   | 20   | 16   | 22   | 24   | 21   | 17   | 25  | 24      | 21      | 17       | 25                          | 24      | 21   | 17   | 25   | 24   | 21  | 16   | 23     | 22     | 19     | 15   |
| 12.1         12.4         12.7         13.2         13.5         13.9         13.8         14.1         14.5         14.9         14.9         15.3         15.8         15.4         15.7         16.2 <td< th=""><th></th><td>1240</td><td>KW</td><td>2.73</td><td>2.78</td><td>2.86</td><td>2.95</td><td>2.92</td><td>2.98</td><td></td><td>3.16</td><td></td><td></td><td></td><td>Н</td><td></td><td>3.31</td><td>3.41</td><td>3.51</td><td>3.37</td><td>3.44</td><td></td><td>3.65</td><td>3.48 3</td><td>3.55</td><td>3.66</td><td>3.77</td></td<>  |      | 1240    | KW      | 2.73 | 2.78 | 2.86 | 2.95 | 2.92 | 2.98 |      | 3.16 |     |         |         | Н        |                             | 3.31    | 3.41 | 3.51 | 3.37 | 3.44 |     | 3.65 | 3.48 3 | 3.55   | 3.66   | 3.77 |
| 220 237 251 261 247 266 281 293 281 303 320 333 320 345 364 380 360 388 410 108 115 126 134 114 121 133 141 119 126 138 147 125 133 145 154 131 139 152  |      |         | AMPS    | 12.1 | 12.4 | 12.7 | 13.1 | 12.9 | 13.2 | 13.5 | 13.9 |     |         |         | _        | 14.6                        | 14.9    | 15.3 | 15.8 | 15.4 | 15.7 |     | 16.7 | 16.2 1 | 16.5   | 17.0   | 17.5 |
| 108 115 126 134 114 121 133 141 119 126 138 147 125 133 145 154 131 139 152  |      |         | HI PR   | 220  | 237  | 251  | 261  | 247  | 266  | 281  | 293  | 281 | 303     |         | -        | 320                         | 345     | 364  | 380  | 360  | 388  |     | 427  | 398    | 429    | 453 ,  | 472  |
| 20. 00. 10. 10. 01. 02. 02. 11. 00. 12. 11. 10. 02. 12. 11. 10. 10. 10. 10. 10. 10. 10. 10. 10   |      |         | LO PR   | 108  | 115  | 126  | 134  | 114  | 121  | 133  | 141  | 119 | 126     | 138     | 147      | 125                         | 133     | 145  | 154  | 131  | 139  | 152 | 162  | 135    | 144    | 157    | 167  |

| MBH   423   451   452   462   413   421   421   421   421   421   431   439   401   420   426   418   374   381   390   428   376   394   394   395   390   395   390   395   390   395   390    |      |      |         |      |      |        |       |      |      |         |      |          |        |       |      |      |         |      |      |     |       |             |
|--|------|------|---------|------|------|--------|-------|------|------|---------|------|----------|--------|-------|------|------|---------|------|------|-----|-------|-------------|
| MBH   423 481 462 482   413 421 441 441   471   403 41.1 431 450   394 401   420 448   374 836 394 26   394 635 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | 39.4 | 0.82 | 19      | 3.93 | 18.3 | 496    | 176   | 38.3 | 0.78 | 20      | 3.90 | 18.1     | 492    | 174   | 35.4 | 0.75 | 20      | 3.80 | 17.7 | 477 | 169   |             |
| MBH   423   481   452   482   413   421   441   471   403   411   431   459   461   420   448   374   381   389   420   481   410    | 37.0 | 1.00 | 22      | 3.81 | 17.7 | 476    | 165   | 32.9 | 0.96 | 23      | 3.78 | 17.5     | 471    | 163   | 33.1 | 0.93 | 23      | 3.69 | 17.1 | 457 | 159   |             |
| MBh   423 43.1 45.2 482 41.3 42.1 44.1 47.1 40.3 41.1 43.1 45.9 49.4 40.1 42.0 44.8 37.4 48.0 71.0 0.099 0.089 0.089 0.08 0.07 1.00 0.091 0.091 0.091 0.091 0.097 0.091 0.0    | 35.3 | 1.00 | 21      | 3.69 | 17.2 | 451    | 151   | 34.3 | 1.00 | 22      | 3.66 | 17.0     | 446    | 150   | 31.6 | 1.00 | 23      | 3.58 | 16.6 | 433 | 145   |             |
| MBh   423   431   452   482   413   421   441   471   403   411   415   459   401   420   446   410    | 34.6 | 1.00 | 20      | 3.62 | 16.8 | 419    | 142   | 33.6 | 1.00 | 22      | 3.59 | 16.7     | 415    | 141   | 31.0 | 1.00 | 23      | 3.50 | 16.3 | 402 | 136   |             |
| MBh   42.3 48.1 45.2 48.2   41.3 42.1 44.1 47.1 40.3 41.1 43.1 45.9 39.4 40.1 42.0 0.97 70.8 1.00 1.00 0.99    40.1 45.0 1.00 0.99    40.1 42.0 1.0 1.00 0.99    40.1 42.0 1.0 1.00 0.99    40.1 42.0 1.0 1.00 0.99    40.1 42.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1   | 42.6 | 0.81 | 20      | 3.80 | 17.4 | 449    | 170   | 41.3 | 0.78 | 21      | 3.77 | 17.2     | 445    | 168   | 38.2 | 0.75 | 21      | 3.68 | 16.8 | 432 | 163   |             |
| Meh   42.3 43.1 45.2 48.2   41.3 42.1 44.1 47.1 40.3 41.1 43.1 45.9 39.4 40.1 42.0 44.8 37.4 10.0 1.00 0.94 0.76 1.00 0.99 0.89 0.89 0.71 1.00 1.00 0.91 0.74 1.00 1.00 0.94 0.76 1.00 0.99 0.97 0.78 1.00 0.94 0.76 1.00 0.99 0.89 0.79 0.79 0.79 0.79 0.79 0.79 0.79 0.7   | 39.9 | 1.00 | 23      | 3.68 | 16.8 | 431    | 160   | 38.8 | 0.96 | 24      | 3.66 | 16.7     | 427    | 158   | 35.8 | 0.92 | 24      | 3.57 | 16.3 | 414 | 153   |             |
| MBh   42.3   43.1   45.2   48.2   41.3   42.1   47.1   40.3   41.1   43.1   45.9   39.4   40.1   42.0   44.8     ST   1.00   0.98   0.88   0.71   1.00   1.00   0.91   0.74   1.00   1.00   0.94   0.76   1.00   0.97   0.78     LSS   1.00   1.00   1.00   0.91   0.74   1.00   1.00   0.94   0.76   1.00   0.97   0.78     AMPS   12.6   12.8   13.2   13.6   13.4   13.7   14.0   14.5   14.4   14.7   15.1   15.5   15.2   15.9   16.4     HI PR   232   250   263   275   260   280   286   318   326   33.1   44.5   13.7   14.0   13.8   13.8   14.8   13.7   14.0   13.8   14.4   17.1   13.9   13.2   13.8     MBh   41.1   41.9   43.9   46.8   40.1   40.9   42.8   42.8   28.0   28.9   28.9   28.9   28.9   28.9   28.9   28.9   28.9   28.9     MBK   41.1   41.9   43.9   46.8   40.1   40.9   42.8   42.7   28.9   28   | 38.1 | 1.00 | 22      | 3.57 | 16.3 | 408    | 146   | 37.0 | 1.00 | 24      | 3.55 | 16.2     | 404    | 145   | 34.2 | 1.00 | 22      | 3.46 | 15.8 | 392 | 140   |             |
| MBh   42.3   43.1   45.2   48.2   41.3   42.1   44.1   47.1   40.3   41.1   43.1   45.9   39.4   40.1   42.0     ST   1.00   0.98   0.88   0.71   1.00   1.00   0.91   0.74   1.00   1.00   0.94   0.76   1.00   1.00   0.97     Delta   | 37.4 | 1.00 | 22      | 3.50 | 16.0 | 379    | 137   | 36.3 | 1.00 | 24      | 3.47 | 15.9     | 375    | 136   | 33.5 | 1.00 | 25      | 3.39 | 15.5 | 364 | 132   |             |
| MBh   42.3 48.1 45.2 48.2   41.3 42.1 44.1 47.1   40.3 41.1 43.1 45.2 46.2     ST  | 44.8 | 0.78 | 20      | 3.65 | 16.4 | 366    | 162   | 43.5 | 0.75 | 21      | 3.63 | 16.3     | 395    | 161   | 40.2 | 0.72 | 21      | 3.54 | 15.9 | 384 | 156   |             |
| MBh   42.3 48.1 45.2 48.2   41.3 42.1 44.1 47.1   40.3 41.1 43.1 45.2 46.2     ST  | 42.0 | 0.97 | 24      | 3.54 | 15.9 | 383    | 152   | 40.8 | 0.92 | 25      | 3.52 | 15.8     | 379    | 151   | 37.7 | 0.89 | 25      | 3.43 | 15.4 | 368 | 146   | n power     |
| MBh   42.3 48.1 45.2 48.2   41.3 42.1 44.1 47.1   40.3 41.1 43.1 45.2 46.2     ST  | 40.1 | 1.00 | 23      | 3.44 | 15.5 | 363    | 139   | 39.0 | 1.00 | 22      | 3.41 | 15.4     | 329    | 138   | 36.0 | 0.98 | 26      | 3.33 | 15.0 | 348 | 134   | tal systen  |
| MBh   42.3 48.1 45.2 48.2   41.3 42.1 44.1 47.1   40.3 41.1 43.1 45.2 46.2     ST  | 39.4 | 1.00 | 23      | 3.37 | 15.2 | 337    | 131   | 38.2 | 1.00 | 52      | 3.34 | 15.1     | 334    | 130   | 35.3 | 1.00 | 56      | 3.26 | 14.7 | 324 | 126   | KW = To     |
| MBh   42.3 43.1 45.2 482   41.3 42.1 44.1 47.1   40.3 41.1     ST   1.00   0.98   0.88   0.71   1.00   0.91   0.74   1.00   1.00     ST   1.00   0.98   0.88   0.71   1.00   0.91   0.74   1.00   1.00     Delta T   25   24   23   20   24   25   23   20   23   24     AMPS   12.6   12.8   13.2   13.6   13.4   13.7   14.0   14.5   14.4   14.7     HI PR   232   250   263   275   260   286   308   296   318     LO PR   114   121   132   141   120   128   139   149   125   133     MBh   41.1   41.9   43.9   46.8   40.1   40.9   42.8   45.7   39.2   39.9     AMPS   12.6   2.5   24   21   26   26   24   21   26   26     LO PR   113   120   131   135   13.3   13.6   13.9   14.4   14.3   14.5     HI PR   230   247   261   272   258   277   293   305   293   315     LO PR   113   120   131   135   13.3   13.6   13.9   14.4   13.1   13.1     MBh   37.9   38.6   40.5   43.2   37.0   37.7   39.5   29.5   36.9     ST   0.93   0.90   0.81   0.96   0.93   0.94   0.98   0.95     ST   0.93   0.90   0.81   0.96   0.93   0.94   0.98   0.95     ST   0.93   0.90   0.81   0.96   0.93   0.94   0.98   0.95     LO PR   113   120   131   130   130   3.05   2.94   0.98   0.95     LO PR   122   12.5   12.8   13.2   13.6   13.9   14.0   13.9   14.2      AMPS   12.2   12.5   12.8   13.2   13.6   13.6   14.0   13.9   14.2      LO PR   109   116   127   136   145   143   140   13.9   14.2      LO PR   109   116   127   136   14.5   14.4   14.3   14.5      LO PR   109   116   127   136   14.6   138   14.0   13.9   14.2      NOTE: Shaded areas is AHRI Rating Conditions.   | 45.9 | 0.76 | 20      | 3.48 | 15.5 | 351    | 154   | 44.6 | 0.72 | 21      | 3.45 | 15.4     | 347    | 153   | 41.2 | 0.70 | 21      | 3.37 | 15.1 | 337 | 148   |             |
| MBh 42.3 43.1 45.2 48.2 41.3 42.1 d. Grid of the strength of t | 43.1 | 0.94 | 23      | 3.38 | 15.1 | 336    | 145   | 41.8 | 0.89 | 24      | 3.35 | 14.9     | 333    | 144   | 38.6 | 98.0 | 25      | 3.27 | 14.6 | 323 | 139   | rature      |
| MBh 42.3 43.1 45.2 48.2 41.3 42.1 4.5 Syr  | 41.1 | 1.00 | 24      | 3.28 | 14.7 | 318    | 133   | 39.9 | 0.99 | 56      | 3.25 | 14.5     | 315    | 131   | 36.9 | 0.95 | 26      | 3.18 | 14.2 | 306 | 128   | Tempe       |
| MBh 42.3 43.1 45.2 48.2 41.3 42.1 4.5 Syr  | 40.3 | 1.00 | 23      | 3.21 | 14.4 | 296    | 125   | 39.2 | 1.00 | 56      | 3.19 | 14.3     | 293    | 124   | 36.2 | 0.99 | 27      | 3.11 | 13.9 | 284 | 120   | ry Bulb     |
| MBh 42.3 43.1 45.2 48.2 41.3 42.1 4.5 Syr  | 47.1 | 0.74 | 20      | 3.28 | 14.5 | 308    | 149   | 45.7 | 0.71 | 21      | 3.26 | 14.4     | 305    | 147   | 42.2 | 0.68 | 21      | 3.18 | 14.0 | 296 | 143   | ndoor [     |
| MBh   42.3 43.1 45.2 48.2 41.3     ST  | 14.1 | 0.91 | 23      | 3.19 | 14.0 | 296    | 139   | 42.8 | 0.87 | 24      | 3.16 | 13.9     | 293    | 138   | 39.5 | 0.84 | 25      | 3.09 | 13.6 | 284 | 134   | l fering l  |
| MBh 42.3 43.1 45.2 48.2  ST 1.00 0.98 0.88 0.71  Delta T 25 24 23 20  KW 2.88 2.89 2.97 3.06  AMPS 12.6 12.8 13.2 13.6  HI PR 232 250 263 275  LO PR 114 121 132 141  MBh 41.1 41.9 43.9 46.8  ST 0.96 0.93 0.84 0.68  Delta T 26 25 24 21  LO PR 113 120 131 135  HI PR 230 247 261 272  LO PR 113 120 131 139  MBh 37.9 36.6 40.5 43.2  ST 0.98 0.90 0.81 0.66  Delta T 26 26 24 21  LO PR 113 120 131 136  MBh 37.9 36.6 40.5 43.2  ST 0.98 0.90 0.81 0.66  Delta T 26 26 24 21  AMPS 12.5 12.7 13.1 13.6  HI PR 230 247 261 272  ST 0.98 0.90 0.81 0.66  Delta T 26 26 24 21  AMPS 12.2 12.5 12.8 13.2  HI PR 22.3 240 253 264  LO PR 109 116 127 13.5   | 42.1 | 1.00 | 25      | 3.09 | 13.7 | 280    | 128   | 40.9 | 96.0 | 26      | 3.07 | 13.6     | 277    | 126   | 37.7 | 0.93 | 26      | 3.00 | 13.3 | 569 | 123   | IDB: Er     |
| MBh 42.3 43.1 45.2  SyT 1.00 0.98 0.88  Delta T 25 24 23  KW 2.83 289 2.97  AMPS 12.6 12.8 13.2  HI PR 232 250 263  LO PR 114 121 132  MBh 41.1 41.9 43.9  SyT 0.96 0.93 0.84  Delta T 26 25 24  1410 KW 2.81 287 2.95  AMPS 12.5 12.7 13.1  HI PR 230 247 261  LO PR 113 120 131  LO PR 113 120 131  MBh 37.9 38.6 40.5  SyT 0.93 0.90 0.81  Delta T 26 26 24  1240 KW 2.75 280 2.89  AMPS 12.2 12.5 12.8  HI PR 23 240 253  HI PR 223 240 253  HI PR 223 240 253  HI PR 223 240 253  LO PR 109 116 127   | 41.3 | 1.00 | 24      | 3.03 | 13.4 | 260    | 120   | 40.1 | 1.00 | 56      | 3.01 | 13.3     | 258    | 119   | 37.0 | 96'0 | 56      | 2.94 | 13.0 | 250 | 115   |             |
|  | 482  | 0.71 | 20      | 3.06 | 13.6 | 275    | 141   | 46.8 | 0.68 | 21      | 3.04 | 13.5     | 272    | 139   |      | 99.0 | 21      | 2.97 | 132  | 264 | 135   | ions        |
|  | 45.2 | 0.88 | 23      | 2.97 | 13.2 | 263    | 132   | 43.9 |      | 24      | 2.95 | 13.1     | 261    | 131   | 40.5 | 0.81 | 24      | 2.89 | 12.8 | 253 | 127   | g Condit    |
|  | 43.1 | 0.98 | 24      | 2.89 | 12.8 | 250    | 121   | 41.9 | 0.93 | 25      | 2.87 | 12.7     | 247    | 120   | 38.6 | 0.90 | 26      | 2.80 | 12.5 | 240 | 116   | l Rating    |
|  | 42.3 | 1.00 | 25      | 2.83 | 12.6 | 232    | 114   | 41.1 | 96.0 | 26      | 2.81 | 12.5     | 230    | 113   | 37.9 | 0.93 | 26      | 2.75 | 12.2 | 223 | 109   | is AHR      |
|  | MBh  | S/T  | Delta T | KW   | AMPS | H<br>K | LO PR | MBh  | S/T  | Delta T | KW   | AMPS     | H<br>K | LO PR | MBh  | S/T  | Delta T | KW   | AMPS | 표   | LO PR | naded areas |
|  |      |      |         | 1580 |      |        |       |      |      |         | 1410 | <u> </u> |        |       |      |      |         | 1240 |      |     |       | VOTE: Sh    |
| 8  |      |      |         |      |      |        |       |      |      |         | 82   |          |        |       |      |      |         |      |      |     |       | *           |

\* NOTE: Shaded areas is AHRI Rating Conditions High and low pressures are measured at the liquid and suction access fittings.

KW = 1 dal system power AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

### **GPC1348H41BA**

**COOLING OPERATION** 

**EXPANDED PERFORMANCE DATA** 

TO MODEL: GPC1348H41\*\*

Design Subcooling, 12±3 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 8±3 °F @ the compressor suction access fitting connection.

|                             | 115 |                                      | 63 67 71  | 37.8 41.4 - | 0.73 0.51 - | 14 11 - | 4.16 4.29 - | 18.9 19.5 - | 454 480 - | 148 162 - | 36.7 40.2 - | 0.70 0.49 - | 15 11 - | 4.12 4.25 - | 18.8 19.3 - | 450 475 - | 147 160 - | 33.9 37.1 - | 0.68 0.47 - | 15 11 - | 4.03 4.15 - | 18.3 18.9 - | 436 461 - | 143 156 - |
|-----------------------------|-----|--------------------------------------|-----------|-------------|-------------|---------|-------------|-------------|-----------|-----------|-------------|-------------|---------|-------------|-------------|-----------|-----------|-------------|-------------|---------|-------------|-------------|-----------|-----------|
|                             |     |                                      | 29 6      | 36.5 37     | .0 88.0     | 16 1    | 4.07 4.     | 18.5 18     | 422 4     | 139 14    | 35.4 36     | .0 84 0.    | 17 1    | 4.04 4.     | 18.4 18     | 418 4     | 138 14    | 32.7 33     | 0.81        | 17 1    | 3.95 4.     | 18.0 18     | 406 4%    | 134 14    |
|                             |     |                                      | 7 71      | - 2         | - 09        | 12 -    | 4.15 -      | 18.5 -      | 434 -     | - /6      | 43.4 -      | - 81        | 12 -    | 4.12 -      | 18.4 -      | - 08      | · 92      | - 1:        | 0.46 -      | 12 -    | 4.02 -      | 18.0 -      | 417 -     | 150 -     |
|                             | 105 |                                      | 63 67     | 40.8 44.7   | 0.73 0.50   | 15 1    | 4.03 4.     | 18.0 18     | 411 4:    | 143 157   | 39.6 43     | 0.69 0.48   | 16 1    | 4.00 4.     | 17.9 18     | 407 430   | 142 155   | 36.6 40.1   | 0.67 0.     | 16 1    | 3.90 4.     | 17.5 18     | 395 4     | 138 1     |
|                             |     |                                      | 29        | 39.4        | 0.87        | 18      | 3.95        | 17.7        | 382       | 135       | 38.3        | 0.83        | 18      | 3.92        | 17.5        | 378       | 134       | 35.3        | 08'0        | 19      | 3.82        | 17.1        | 367       | 130       |
|                             |     |                                      | 67 71     | 47.1 -      | - 0.49      | 12 -    | 3.99        | 17.6 -      | - 988     | 149 -     | - 45.7      | - 0.46      | 12 -    | 3.96        | 17.4 -      | 382 -     | 148 -     | 42.2 -      | 0.45        | 12 -    | 3.87        | 17.0 -      | 371 -     | 144 -     |
| erature                     | 92  | perature                             | 83 6      | 43.0 47     | 0.70 0.     | 15 1    | 3.87 3.     | 17.1 17     | 366 38    | 137 1     | 41.7 4      | 0.67        | 16 1    | 3.85 3.     | 17.0 17     | 362 34    | 136 14    | 38.5 42     | 0.65 0.     | 16 1    | 3.76 3.     | 16.6 17     | 351 3     | 131 14    |
| Outdoor Ambient Temperature |     | Entering Indoor Wet Bulb Temperature | 29        | 41.5        | 0.84        | 18      | 3.80        | 16.8        | 340       | 129       | 40.3        | 0.80        | 19      | 3.77        | 16.6        | 336       | 127       | 37.2        | 0.77        | 19      | 3.68        | 16.2        | 326       | 124       |
| door Amb                    |     | door Wet                             | 67 71     | .3          | 4           | 2 -     | 31 -        | - 93        | - 6       | - 71      | - 6         | 12 -        | 2 -     | - 82        | - 5         | - 9       | - 11      | .3          | 13 -        | 2 -     | · - 60      | 1           | - 93      | - 4       |
| O                           | 82  | Entering In                          | .9 29     | 44.1 48.3   | 0.68 0.47   | 15 12   | 3.70 3.81   | 16.2 16.6   | 321 339   | 130 142   | 42.8 46.9   | 0.65 0.45   | 16 12   | 3.67 3.78   | 16.0 16.5   | 318 336   | 129 141   | 39.5 43.3   | 0.63 0.43   | 16 12   | 3.59 3.69   | 15.7 16.1   | 308 326   | 125 137   |
|                             |     | _                                    | 29        | 42.5        | 0.81        | 18      | 3.62        | 15.9        | 298       | 123       | 41.3        | 0.78        | 18      | 3.60        | 15.7        | 295       | 121       | 38.1        | 0.75        | 19      | 3.52        | 15.4        | 286       | 118       |
|                             |     |                                      | 67 71     | 49.5        | 0.46 -      | 12 -    | 3.60 -      | 15.5 -      | - 268     | 137 -     | - 48.0      | 0.44 -      | 12 -    | 3.57        | 15.4 -      | 295 -     | 136 -     | 44.3 -      | 0.42 -      | 12 -    | 3.49 -      | 15.0 -      | - 286     | 131 -     |
|                             | 75  |                                      | 63        | 45.1 4      | 99.0        | 15      | 3.49        | 15.1        | 282       | 125 1     | 43.8        | 0.63        | 16      | 3.47        | 15.0        | 279       | 124 1     | 40.4        | 0.61 0      | 16      | 3.39 3      | 14.7 1      | 271 2     | 120 1     |
|                             |     |                                      | 29        | 43.5        | 0.79        | 18      | 3.43        | 14.8        | 792       | 118       | 42.3        | 92'0        | 18      | 3.40        | 14.7        | 260       | 117       | 39.0        | 0.73        | 19      | 3.33        | 14.4        | 252       | 113       |
|                             |     |                                      | 67 71     | - 9.09      | 0.44 -      | - 11    | 3.36 -      | 14.5 -      | - 266     | 130 -     | 49.2        | 0.42        | 12 -    | 3.34 -      | 14.4 -      | 263 -     | 128 -     | 45.4 -      | 0.41 -      | 12 -    | 3.26 -      | 14.1 -      | 255 -     | 124 -     |
|                             | 92  |                                      | 63        | 46.2        | 0.64 (      | 15      | 3.27        | 14.2        | 252       | 119       | 44.9        | 0.61        | 16      | 3.24        | 14.1        | 249       | 118       | 41.4        | 0.59        | 16      | 3.17        | 13.8        | 242       | 114       |
|                             |     |                                      | 29        | 44.6        | 0.77        | T 17    | 3.20        | 13.9        | 234       | 112       | 43.3        | 0.73        | T 18    | 3.18        | 13.8        | 231       | 110       | 40.0        | 0.70        | T 18    | 3.11        | 13.5        | 224       | 107       |
|                             |     |                                      | ,         | MBh         | S/T         | Delta T | KW          | AMPS        | HI PR     | LO PR     | MBh         | Z/S         | Delta T | KW          | AMPS        | H R       | LO PR     | MBh         | Z/S         | Delta T | ΚW          | AMPS        | HR        | LO PR     |
|                             |     |                                      | * Airflow |             |             |         | 1800        |             |           |           |             |             |         | 1600        |             |           |           |             |             |         | 1400        |             |           |           |
|                             |     |                                      | IDB*      |             |             |         |             |             |           |           |             |             |         | 2           |             |           |           |             |             |         |             |             |           |           |

|    |      | MBh                                    | 45.3 | 46.7 | 50.5      | 50.5 542 | 44.3      | 45.6 | 49.4 | 53.0  | 43.2 | 44.5 | 48.2 | 51.7 | 42.2 | 43.4 | 47.0 | 50.4 | 40.1 | 41.3 | 44.7 | 47.9 | 37.1   | 38.2 | 41.4   | 44.4 |
|----|------|--|------|------|-----------|----------|-----------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|--------|------|--------|------|
|    |      | SVT                                    | 0.87 | 0.78 | 0.59      | 0.38     | 0.00      | 0.81 | 0.61 | 0.39  | 0.93 | 0.83 | 0.63 | 0.40 | 96.0 | 0.85 | 0.65 | 0.42 | 66.0 | 0.89 | 0.67 | 0.43 | 1.00 ( | 0.89 | 0.68   | 0.44 |
|    |      | Delta T                                | 20   | 19   | 15        | 11       | 20        | 19   | 15   | 11    | 20   | 19   | 15   | 11   | 21   | 19   | 16   | 11   | 20   | 19   | 15   | 11   | 19     | 17   | 14     | 10   |
|    | 1800 | ΚM                                     | 3.23 | 3.29 | 3.38      | 3.48     | 3.45      | 3.52 | 3.62 | 3.73  | 3.65 | 3.73 | 3.84 | 3.95 | 3.83 | 3.91 | 4.02 | 4.15 | 3.98 | 4.06 | 4.18 | 4.31 | 4.10 4 | 4.19 | 4.32 4 | 4.46 |
|    |      | AMPS                                   | 14.0 | 14.3 | 14.7      | 15.1     | 14.9      | 15.2 | 15.6 | 16.1  | 16.0 | 16.3 | 16.7 | 17.3 | 16.9 | 17.2 | 17.7 | 18.3 | 17.8 | 18.2 | 18.7 | 19.3 | 18.7   | 19.1 | 19.6   | 20.3 |
|    |      | H<br>K                                 | 236  | 254  | 268       | 280      | 265       | 285  | 301  | 314   | 301  | 324  | 342  | 327  | 343  | 369  | 330  | 407  | 386  | 415  | 439  | 458  | 427    | 459  | 485 (  | 909  |
|    |      | LO PR                                  | 113  | 120  | 131       | 139      | 119       | 127  | 138  | 147   | 124  | 132  | 144  | 153  | 130  | 138  | 151  | 161  | 136  | 145  | 158  | 169  | 141    | 150  | 164    | 174  |
| _  |      | MBh                                    | 44.0 | 45.3 | 49.1      | 52.7     | 43.0      | 44.3 | 47.9 | 51.4  | 42.0 | 43.2 | 46.8 | 50.2 | 41.0 | 42.2 | 45.6 | 49.0 | 38.9 | 40.1 | 43.4 | 46.5 | 36.0   | 37.1 | 40.2   | 43.1 |
|    |      | SyT                                    | 0.83 | 0.74 | 0.74 0.56 | 0.36     | 0.86 0.77 | 0.77 | 0.58 | 0.37  | 0.88 | 0.79 | 09.0 | 0.38 | 0.91 | 0.82 | 0.62 | 0.40 | 0.95 | 0.85 | 0.64 | 0.41 | 0.95 ( | 0.85 | 0.65 ( | 0.42 |
|    |      | Delta T                                | 21   | 19   | 16        | 11       | 21        | 20   | 16   | 11    | 21   | 20   | 16   | 11   | 21   | 20   | 16   | 11   | 21   | 19   | 16   | 11   | 20     | 18   | 15     | 10   |
| 75 | 1600 | ΚM                                     | 3.21 | 3.27 | 3.36      | 3.46     | 3.43      | 3.50 | 3.60 | 3.71  | 3.62 | 3.70 | 3.81 | 3.92 | 3.80 | 3.88 | 3.99 | 4.12 | 3.95 | 4.03 | 4.15 | 4.28 | 4.07   | 4.16 | 4.29 4 | 4.42 |
|    |      | AMPS                                   | 13.9 | 14.2 | 14.5      | 15.0     | 14.8      | 15.1 | 15.5 | 16.0  | 15.9 | 16.2 | 16.6 | 17.1 | 16.8 | 17.1 | 17.6 | 18.1 | 17.7 | 18.0 | 18.5 | 19.1 | 18.5   | 18.9 | 19.5   | 20.1 |
|    |      | H<br>R                                 | 234  | 252  | 266       | 277      | 762       | 282  | 298  | 311   | 298  | 321  | 336  | 354  | 340  | 366  | 386  | 403  | 382  | 411  | 434  | 453  | 422    | 454  | 480 (  | 501  |
|    |      | LO PR                                  | 112  | 119  | 130       | 138      | 118       | 125  | 137  | 146   | 123  | 130  | 142  | 152  | 129  | 137  | 149  | 159  | 135  | 144  | 157  | 167  | 140    | 148  | 162    | 173  |
|    |      | MBh                                    | 40.6 | 41.8 | 45.3      | 48.6     | 268       | 40.9 | 44.2 | 47.5  | 38.7 | 39.9 | 43.2 | 46.3 | 37.8 | 38.9 | 42.1 | 45.2 | 35.9 | 37.0 | 40.0 | 42.9 | 33.3   | 34.2 | 37.1   | 39.8 |
|    |      | S/T                                    | 0.80 | 0.72 | 0.54      | 0.35     | 0.83      | 0.74 | 0.56 | 0.36  | 0.85 | 0.76 | 0.58 | 0.37 | 0.88 | 0.79 | 0.59 | 0.38 | 0.91 | 0.82 | 0.62 | 0.40 | 0.92 ( | 0.82 | 0.62 ( | 0.40 |
|    |      | Delta T                                | 21   | 20   | 16        | 11       | 22        | 20   | 16   | 11    | 22   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 20     | 19   | 15     | 10   |
|    | 1400 | ΚW                                     | 3.14 | 3.20 | 3.29      | 3.38     | 3.35      | 3.42 | 3.52 | 3.62  | 3.54 | 3.61 | 3.72 | 3.83 | 3.71 | 3.79 | 3.90 | 4.02 | 3.85 | 3.93 | 4.05 | 4.18 | 3.98   | 4.06 | 4.18 4 | 4.32 |
|    |      | AMPS                                   | 13.6 | 13.9 | 14.2      | 14.7     | 14.5      | 14.8 | 15.2 | 15.6  | 15.5 | 15.8 | 16.2 | 16.7 | 16.4 | 16.7 | 17.2 | 17.7 | 17.2 | 17.6 | 18.1 | 18.7 | 18.1   | 18.5 | 19.0   | 19.6 |
|    |      | HI PR                                  | 227  | 244  | 258       | 269      | 254       | 274  | 289  | 302   | 289  | 311  | 329  | 343  | 330  | 322  | 375  | 391  | 371  | 366  | 421  | 439  | 410    | 441  | 466 ,  | 486  |
|    |      | LO PR                                  | 108  | 115  | 126       | 134      | 114       | 122  | 133  | 141   | 119  | 126  | 138  | 147  | 125  | 133  | 145  | 154  | 131  | 139  | 152  | 162  | 135    | 144  | . 151  | 167  |
|    | *    | ************************************** | ٥    |      |           | , ,      |           |      | 2    | C LLC |      |      |      |      |      |      |      |      |      |      |      |      |        |      |        | I    |

NOTE: Shaded area is ACCA (TVA) conditions High and low pressures are measured at the liquid and suction access fittings. \* IDB: Entering Indoor Dry Bulb Temperature

### **GPC1348H41BA**

### **COOLING OPERATION**

## **EXPANDED PERFORMANCE DATA**

MODEL: GPC1348H41\*\*

Design Subcooling, 12±3 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 8±3 °F @ the compressor suction access fitting connection.

|      |         |         |      |      |      |      |      |      |      |        |        | כ       | Out door / | Ambient   |   | i erri perature |      |       |        |        |         |           |           |           |           |
|------|---------|---------|------|------|------|------|------|------|------|--------|--------|---------|------------|-----------|---|-----------------|------|-------|--------|--------|---------|-----------|-----------|-----------|-----------|
|      |         |         |      | 65   | 2    |      |      | 75   |      |        |        | 85      |            |           |   | 92              |      |       |        | 105    |         |           |           | 115       |           |
|      |         |         |      |      |      |      |      |      |      |        | Ф      | ntering | Indoor     | Wet Bu    | <b>Entering Indoor Wet Bulb Temperature</b> | erature         |      |       |        |        |         |           |           |           |           |
| *BQI | Airflow |         | 69   | 63   | 29   | 71   | 29   | 63   | 29   | 71     | 29     | 63      | 2 29       | 71        | 29 (  | ස               | 29   | 71    | 29     | 63 (   | .   29  | 71        | 29 6      | 63 67     | 7 71      |
|      |         | MBh     | 46.1 | 47.2 | 50.4 | 53.9 | 45.1 | 46.1 | 49.2 | 52.6   | 44.0 4 | 45.0 4  | 48.0 5     | 51.4 4,   | 42.9 4                                      | 43.9            | 46.9 | 50.1  | 40.8 4 | 41.7 4 | 44.5 4  | 47.6 37   | 7.8 38.   | 9         | 41.2 44.  |
|      |         | SYT     | 96'0 | 0.90 | 0.73 | 0.55 | 1.00 | 0.93 | 0.76 | 0.56   | 1.00 0 | 0.95 0  | 0.78 0.    | 0.58      | .00   | 00.             | 08.0 | 09.0  | 1.00.1 | 0 00'  | 0.83 0  | 0.62      | .00       | .00 0.84  | 34 0.63   |
|      |         | Delta T | 23   | 22   | 19   | 15   | 23   | 22   | 19   | 15     | 22     | 22      | 19 1       | 15        | 22  | 22              | 19   | 15    | 21     |        | , 61    | 15 1      | 19 2      | 20 1      | 18 14     |
|      | 1800    | KW      | 3.25 | 3.31 | 3.41 | 3.51 | 3.48 | 3.55 | 3.65 | 3.76   | 3.68 3 | 3.75 3  | 3.87 3.    | 86        | 3.86 3.                                     | 94              | 4.06 | 4.18  | 4.01 4 | 4.09 4 | 4.22 4. | 4.35 4.   | 14 4      | .22 4.35  | 35 4.49   |
|      |         | AMPS    | 14.1 | 14.4 | 14.8 | 152  | 15.0 | 15.3 | 15.7 | 16.2   | 16.1 1 | 16.4 1  | 16.9 1     | 17.4 1    | 17.0 1                                      | 17.4            | 17.9 | 18.4  | 17.9 1 | 18.3 1 | 18.8 19 | 19.4      | 18.8 19.3 | 2         | 19.8 20.4 |
|      |         | HI PR   | 238  | 257  | 271  | 283  | 268  | 288  | 304  | 317    | 304    | 328     | 346 3      | 361 3     | 347 3                                       | 373             | 394  | 411   | 390 4  | 420 4  | 443 4   | 462 4     | 431 4     | 464 490   | 0 511     |
|      |         | LO PR   | 114  | 121  | 132  | 141  | 120  | 128  | 140  | 149    | 125 1  | 133 1   | 145 1      | 155 1     | 131 1                                       | 140             | 153  | 162   | 138 1  | 146 1  | 160 1   | 1 70 1    | 142 1     | 151 16    | 165 176   |
|      |         | MBh     | 44.8 | 45.8 | 48.9 | 52.3 | 43.8 | 44.7 | 47.8 | 51.1   | 42.7 4 | 43.7 4  | 46.6 49    | 49.9      | 41.7 4                                      | 42.6            | 45.5 | 48.6  | 39.6 4 | 40.5 4 | 43.2 4  | 46.2   36 | 36.7 37   | 37.5 40   | 40.0 42.8 |
|      |         | S√      | 0.91 | 0.85 | 0.70 | 0.52 | 0.94 | 0.89 | 0.72 | 0.54   | 0.97 0 | 0.91 0  | 0.74 0.    | 0.55 1.   | 1.00 0                                      | 0.94            | 92.0 | . 250 | 1.00 0 | 0.97 0 | 0.79 0. | 0.59 1.   | 1.00 0.   | .98 0.80  | 30 0.60   |
|      |         | Delta T | 23   | 22   | 20   | 16   | 24   | 23   | 20   | 16     | 24     | 23      | 20 1       | 16 2      | 24  | 23              | 20   | 16    | 23     | 23     | 20      | 16 2      | 21 2      | 21 1      | 18 15     |
| 8    | 1600    | KW      | 3.23 | 3.29 | 3.38 | 3.48 | 3.45 | 3.52 | 3.62 | 3.73   | 3.65 3 | 3.73 3  | 3.84 3.    | 3.95 3.   | 3.83 3                                      | 3.91            | 4.02 | 4.15  | 3.98 4 | 4.06 4 | 4.18 4. | 4.31 4.   | 4.11 4.   | 4.19 4.32 | 32 4.46   |
|      |         | AMPS    | 14.0 | 14.3 | 14.7 | 15.1 | 14.9 | 15.2 | 15.6 | 16.1   | 16.0 1 | 16.3 1  | 16.7 1     | 17.3   10 | 16.9  | 17.2            | 17.7 | 18.3  | 17.8 1 | 18.2 1 | 18.7 19 | 19.3      | 18.7 19   | 9.1 19    | 19.6 20.3 |
|      |         | HI PR   | 236  | 254  | 268  | 280  | 265  | 285  | 301  | 314    | 301    | 324     | 342 3      | 357 3     | 343 3                                       | 369             | 390  | 407   | 386    | 415 4  | 439 4   | 458 4     | 427 4     | 459 48    | 485 506   |
|      |         | LO PR   | 113  | 120  | 131  | 139  | 119  | 127  | 138  | 147    | 124 1  | 132 1   | 144        | 153 1     | 130 1                                       | 138             | 151  | 161   | 136 1  | 145 1  | 58 1    | 69        | 141 1     | 50 16     | 164 174   |
|      |         | MBh     | 41.4 | 42.3 | 45.1 | 48.3 | 40.4 | 41.3 | 44.1 | 47.1   | 39.4 4 | 40.3 4  | 43.0 4     | 46.0 3    | 38.5 3                                      | 39.3            | 42.0 | 44.9  | 36.5 3 | 37.3 3 | 39.9 4; | 42.6      | 33.9 34   | 34.6 37   | 37.0 39.5 |
|      |         | S/T     | 88'0 | 0.82 | 0.67 | 0.50 | 0.91 | 0.85 | 0.70 | 0.52 0 | 0.93 0 | 0.88 0  | 0.71 0.    | 0.53 0.   | 0.96.0                                      | 0.90            | 0.74 | 0.55  | 1.00 0 | 0.94 0 | 0.76 0. | 0.57      | .01 0.    | .95 0.77  | 77 0.58   |
|      |         | Delta T | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16     | 24     | 23      | 20 1       | 16   2    | 24  | 23              | 20   | 16    | 24     | 23     | , 02    | 16 2      | 22 2      | 21 1      | 19 15     |
|      | 1400    | KW      | 3.16 | 3.22 | 3.31 | 3.41 | 3.38 | 3.44 | 3.54 | 3.65   | 3.57 3 | 3.64 3  | 3.75 3.    | 3.86      | 3.74 3                                      | 3.82            | 3.93 | 4.05  | 3.88 3 | 3.96 4 | 4.08 4. | 4.21 4.   | 4.01 4.   | 4.09 4.3  | 22 4.35   |
|      |         | AMPS    | 13.7 | 14.0 | 14.3 | 14.8 | 14.6 | 14.9 | 15.3 | 15.7   | 15.6 1 | 15.9 1  | 16.4 10    | 16.9      | 16.5 1                                      | 16.8            | 17.3 | 17.9  | 17.4 1 | 17.7 1 | 18.2 1  | 18.8 18   | 18.2 18.  | 9         | 19.2 19.8 |
|      |         | H PR    | 229  | 246  | 260  | 271  | 257  | 277  | 292  | 305    | 292    | 315     | 332 3      | 346 3     | 333 3                                       | 358             | 378  | 395   | 375 4  | 403 4  | 426 4   | 444 4     | 414 4     | 445 470   | .0 490    |
|      |         | LO PR   | 109  | 116  | 127  | 135  | 116  | 123  | 134  | 143    | 120 1  | 128     | 139 1      | 149 1     | 126 1                                       | 134             | 146  | 156   | 132 1  | 141 1  | 154 1   | 63 1      | 137 1     | 145 159   | 9 169     |
|      |         |         |      |      |      |      |      |      |      |        |        |         |            |           |   |                 |      |       |        |        |         |           |           |           |           |

|      |      |         |      |      |      |       |      |      |         |      | •    | •    |       | •    |      | •       | •    | •    | •     |       |  |
|------|------|---------|------|------|------|-------|------|------|---------|------|------|------|-------|------|------|---------|------|------|-------|-------|--|
| 43.8 | 0.81 | 18      | 4.53 | 20.6 | 516  | 178   | 42.5 | 0.77 | 19      | 4.49 | 20.4 | 511  | 176   | 39.2 | 0.75 | 19      | 4.38 | 20.0 | 495   | 171   |  |
| 41.0 | 1.00 | 21      | 4.39 | 20.0 | 495  | 167   | 39.8 | 0.96 | 22      | 4.35 | 19.8 | 490  | 165   | 36.8 | 0.92 | 22      | 4.25 | 19.3 | 475   | 160   |  |
| 39.2 | 1.00 | 20      | 4.26 | 19.4 | 468  | 153   | 38.0 | 1.00 | 22      | 4.22 | 19.2 | 464  | 151   | 35.1 | 1.00 | 23      | 4.12 | 18.8 | 450   | 147   |  |
| 38.4 | 1.00 | 20      | 4.17 | 19.0 | 435  | 144   | 37.3 | 1.00 | 21      | 4.14 | 18.8 | 431  | 142   | 34.4 | 1.00 | 23      | 4.04 | 18.4 | 418   | 138   |  |
| 47.3 | 0.81 | 19      | 4.38 | 19.6 | 467  | 172   | 45.9 | 0.77 | 20      | 4.35 | 19.4 | 462  | 170   | 42.4 | 0.74 | 21      | 4.24 | 19.0 | 448   | 165   |  |
| 44.3 | 0.99 | 22      | 4.25 | 19.0 | 448  | 161   | 43.0 | 0.95 | 23      | 4.22 | 18.8 | 443  | 160   | 39.7 | 0.91 | 24      | 4.12 | 18.4 | 430   | 155   |  |
| 42.3 | 1.00 | 22      | 4.12 | 18.5 | 424  | 148   | 41.1 | 1.00 | 24      | 4.09 | 18.3 | 420  | 146   | 37.9 | 1.00 | 25      | 3.99 | 17.9 | 407   | 142   |  |
| 41.5 | 1.00 | 21      | 4.04 | 18.1 | 394  | 139   | 40.3 | 1.00 | 23      | 4.01 | 17.9 | 390  | 138   | 37.2 | 1.00 | 24      | 3.91 | 17.5 | 378   | 133   |  |
| 49.7 | 0.78 | 20      | 421  | 18.6 | 415  | 164   | 48.3 | 0.74 | 21      | 4.18 | 18.4 | 411  | 162   | 44.6 | 0.71 | 21      | 4.08 | 18.0 | 336   | 158   |  |
| 46.6 | 96.0 | 23      | 4.09 | 18.0 | 398  | 154   | 45.3 | 0.91 | 24      | 4.06 | 17.9 | 394  | 153   | 41.8 | 0.88 | 24      | 3.96 | 17.4 | 382   | 148   | n power                                      |
| 44.5 | 1.00 | 23      | 3.97 | 17.5 | 377  | 141   | 43.2 | 1.00 | 22      | 3.94 | 17.4 | 373  | 140   | 39.9 | 0.97 | 26      | 3.84 | 17.0 | 362   | 136   | KW = Total system power                      |
| 43.7 | 1.00 | 22      | 3.89 | 17.1 | 320  | 133   | 42.4 | 1.00 | 24      | 3.86 | 17.0 | 347  | 131   | 39.1 | 1.00 | 56      | 3.77 | 16.6 | 336   | 127   | KW = To                                      |
| 51.0 | 0.75 | 20      | 4.02 | 17.5 | 364  | 156   | 49.5 | 0.72 | 20      | 3.98 | 17.4 | 361  | 155   | 45.7 | 69.0 | 21      | 3.89 | 17.0 | 320   | 150   |  |
| 47.8 | 0.93 | 23      | 3.90 | 17.0 | 349  | 147   | 46.4 | 0.88 | 24      | 3.87 | 16.9 | 346  | 145   | 42.8 | 0.85 | 24      | 3.78 | 16.5 | 332   | 141   | rature                                       |
| 45.6 | 1.00 | 23      | 3.78 | 16.5 | 331  | 134   | 44.3 | 0.98 | 25      | 3.75 | 16.4 | 328  | 133   | 40.9 | 0.94 | 25      | 3.67 | 16.0 | 318   | 129   | Tempe  |
| 44.8 | 1.00 | 23      | 3.71 | 16.2 | 307  | 126   | 43.5 | 1.00 | 22      | 3.68 | 16.1 | 304  | 125   | 40.1 | 0.98 | 26      | 3.60 | 15.7 | 295   | 121   | Jry Bulb                                     |
| 52.2 | 0.73 | 20      | 3.79 | 16.4 | 320  | 150   | 20.7 | 0.70 | 20      | 3.76 | 16.2 | 317  | 149   | 46.8 | 0.67 | 21      | 3.68 | 15.9 | 308   | 144   | ring Indoor Dry Bulb Temperature             |
| 49.0 | 0.90 | 23      | 3.68 | 15.9 | 307  | 141   | 47.5 | 0.86 | 24      | 3.65 | 15.7 | 304  | 140   | 43.9 | 0.83 | 24      | 3.57 | 15.4 | 295   | 136   | ntering                                      |
| 46.7 | 1.00 | 24      | 3.57 | 15.4 | 291  | 129   | 45.4 | 96.0 | 25      | 3.55 | 15.3 | 288  | 128   | 41.9 | 0.92 | 25      | 3.47 | 15.0 | 279   | 124   | IDB: Ente                                    |
| 45.9 | 1.00 | 23      | 3.50 | 15.1 | 270  | 121   | 44.5 | 0.99 | 25      | 3.48 | 15.0 | 268  | 120   | 41.1 | 0.95 | 26      | 3.40 | 14.7 | 260   | 117   |  |
| 53.5 | 0.71 | 19      | 3.54 | 15.3 | 285  | 142   | 51.9 | 0.67 | 20      | 3.51 | 152  | 283  | 141   | 47.9 | 0.65 | 20      | 3.43 | 14.9 | 274   | 137   | tions  |
| 50.1 | 0.87 | 22      | 3.43 | 14.9 | 274  | 134   | 48.7 | 0.83 | 23      | 3.41 | 14.8 | 271  | 132   | 44.9 | 0.80 | 24      | 3.33 | 14.4 | 263   | 128   | g Condi                                      |
| 47.9 | 0.97 | 24      | 3.34 | 14.5 | 259  | 122   | 46.5 | 0.92 | 25      | 3.31 | 14.4 | 257  | 121   | 42.9 | 0.89 | 25      | 3.24 | 14.1 | 249   | 117   | Ratin (                                      |
| 47.0 | 1.00 | 24      | 3.28 | 14.2 | 241  | 115   | 45.6 | 0.36 | 25      | 3.25 | 14.1 | 238  | 114   | 42.1 | 0.92 | 25      | 3.18 | 13.8 | 231   | 110   | s is AHF                                     |
| MBh  | S/T  | Delta T | ΚM   | AMPS | H PR | LO PR | MBh  | S/T  | Delta T | ΚM   | AMPS | H PR | LO PR | MBh  | S/T  | Delta T | ΚW   | AMPS | HI PR | LO PR | aded area                                    |
|      |      |         | 1800 |      |      |       |      | 1    |         | 1600 |      |      |       |      |      |         | 1400 |      |       |       | NOTE: Shaded areas is AHRI Rating Conditions |
|      |      |         |      |      |      |       |      |      |         | 82   |      |      |       |      |      |         |      |      |       |       | *  |
| _    |      |         |      |      |      |       |      |      |         |      |      |      |       |      |      |         |      |      |       |       | -  |

NOIE: Shaded areas is AHRI Rating Conditions
High and low pressures are measured at the liquid and suction access fittings.

kwy = 1 αal system power AMPS: Unit amps (comp.+ evaporatα + condenser fan motors)

### GPC1360H41BA

**COOLING OPERATION** 

EXPANDED PERFORMANCE DATA

Design Subcooling, 12±3 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 8±3 °F @ the compressor suction access fitting connection.

| _                           |     |                                      | -         |      |      |         |      |      |       |       |      |      |         |      |      |       |       |      |      |         |      |      |       |       |
|-----------------------------|-----|--------------------------------------|-----------|------|------|---------|------|------|-------|-------|------|------|---------|------|------|-------|-------|------|------|---------|------|------|-------|-------|
|                             |     |                                      | 71        |      | -    |         |      |      |       |       |      |      | -       | -    |      | -     |       |      |      | -       |      |      | -     | -     |
|                             | 115 |                                      | <b>29</b> | 52.4 | 0.50 | 12      | 5.48 | 26.3 | 478   | 159   | 50.9 | 0.48 | 12      | 5.43 | 26.1 | 473   | 157   | 46.9 | 0.46 | 12      | 5.29 | 25.4 | 459   | 152   |
|                             | 1,  |                                      | 63        | 47.8 | 0.72 | 15      | 5.30 | 25.5 | 453   | 145   | 46.4 | 69.0 | 16      | 5.25 | 25.3 | 448   | 144   | 42.8 | 99.0 | 16      | 5.12 | 24.7 | 435   | 140   |
|                             |     |                                      | 29        | 46.1 | 0.86 | 18      | 5.18 | 25.0 | 421   | 137   | 44.8 | 0.82 | 18      | 5.14 | 24.8 | 417   | 135   | 41.3 | 0.79 | 19      | 5.01 | 24.2 | 404   | 131   |
|                             |     |                                      | 71        |      | 1    | -       | -    | -    | ı     |       |      |      | 1       | -    | -    | -     | -     | -    | 1    | 1       | 1    | -    | •     | •     |
|                             | 2   |                                      | 29        | 29.2 | 0.49 | 12      | 5.29 | 25.0 | 433   | 153   | 54.9 | 0.47 | 13      | 5.24 | 24.8 | 428   | 152   | 50.7 | 0.45 | 13      | 5.11 | 24.2 | 416   | 147   |
|                             | 105 |                                      | 63        | 51.6 | 0.71 | 16      | 5.12 | 24.3 | 410   | 141   | 50.1 | 0.68 | 17      | 5.08 | 24.1 | 406   | 139   | 46.2 | 99.0 | 17      | 4.95 | 23.6 | 394   | 135   |
|                             |     |                                      | 29        | 49.8 | 0.85 | 19      | 5.01 | 23.8 | 381   | 132   | 48.3 | 0.82 | 20      | 4.97 | 23.7 | 377   | 131   | 44.6 | 62'0 | 20      | 4.84 | 23.1 | 366   | 127   |
|                             |     |                                      | 71        |      | -    | -       | -    | -    | -     | -     |      |      | -       | -    | -    | -     |       | -    | -    | -       | -    | -    | -     | -     |
|                             |     | е                                    | 29        | 59.5 | 0.48 | 12      | 5.07 | 23.7 | 382   | 146   | 8.73 | 0.45 | 13      | 5.03 | 23.6 | 381   | 145   | 53.3 | 0.44 | 13      | 4.90 | 23.0 | 369   | 141   |
| Outdoor Ambient Temperature | 92  | Entering Indoor Wet Bulb Temperature | ස         | 54.3 | 69.0 | 16      | 4.91 | 23.1 | 364   | 134   | 52.7 | 99.0 | 17      | 4.87 | 22.9 | 361   | 133   | 48.7 | 0.63 | 17      | 4.75 | 22.4 | 320   | 129   |
| ent Tem                     |     | Bulb Teı                             | 29        | 52.4 | 0.82 | 19      | 4.80 | 22.6 | 339   | 126   | 50.9 | 0.79 | 20      | 4.76 | 22.5 | 332   | 125   | 47.0 | 92.0 | 20      | 4.65 | 22.0 | 325   | 121   |
| r Ambi                      |     | or Wet                               | 71        |      | -    | -       | -    | -    | -     | -     |      |      | -       | -    | -    | -     | -     | -    | -    | -       | -    | -    | -     | -     |
| Outdoo                      | 2   | gIndoc                               | 29        | 61.0 | 0.46 | 12      | 4.82 | 22.5 | 338   | 139   | 59.2 | 0.44 | 13      | 4.78 | 22.3 | 334   | 138   | 54.7 | 0.42 | 13      | 4.66 | 21.8 | 324   | 134   |
|                             | 85  | Enterin                              | 63        | 22.7 | 0.67 | 16      | 4.66 | 21.9 | 320   | 128   | 54.1 | 0.64 | 17      | 4.63 | 21.7 | 317   | 126   | 49.9 | 0.61 | 17      | 4.51 | 21.2 | 307   | 123   |
|                             |     |                                      | 29        | 53.7 | 0.80 | 19      | 4.56 | 21.4 | 297   | 120   | 52.2 | 0.76 | 20      | 4.53 | 21.3 | 294   | 119   | 48.1 | 0.73 | 20      | 4.42 | 20.8 | 285   | 115   |
|                             |     |                                      | 7.1       |      | -    | -       | -    | -    | -     |       |      |      | -       | -    | -    | -     | 1     | -    | -    | -       | -    | -    | -     | -     |
|                             | 2   |                                      | <b>29</b> | 62.5 | 0.45 | 12      | 4.53 | 21.0 | 297   | 134   | 2.09 | 0.43 | 13      | 4.49 | 20.8 | 294   | 133   | 56.0 | 0.41 | 13      | 4.38 | 20.4 | 285   | 129   |
|                             | 75  |                                      | 63        | 57.0 | 0.65 | 16      | 4.39 | 20.4 | 281   | 123   | 55.4 | 0.62 | 17      | 4.35 | 20.3 | 278   | 122   | 51.1 | 09.0 | 17      | 4.24 | 19.8 | 270   | 118   |
|                             |     |                                      | 29        | 22.0 | 0.78 | 19      | 4.29 | 20.0 | 261   | 115   | 53.4 | 0.74 | 20      | 4.26 | 19.9 | 259   | 114   | 49.3 | 0.72 | 20      | 4.16 | 19.5 | 251   | 111   |
|                             |     |                                      | 71        |      | -    | -       | -    | -    | -     | -     |      | -    | -       | -    | -    | -     | -     | -    | -    | -       | -    | -    | -     | -     |
|                             | 92  |                                      | 29        | 64.0 | 0.43 | 12      | 4.20 | 19.7 | 265   | 127   | 62.1 | 0.41 | 13      | 4.17 | 19.5 | 262   | 126   | 57.3 | 0.40 | 13      | 4.07 | 19.1 | 254   | 122   |
|                             | 9   |                                      | 63        | 58.4 | 0.63 | 16      | 4.07 | 19.2 | 251   | 116   | 29.7 | 0.60 | 17      | 4.04 | 19.1 | 248   | 115   | 52.3 | 0.58 | 17      | 3.94 | 18.6 | 241   | 112   |
|                             |     |                                      | 69        | 26.3 | 92'0 | 19      | 3.99 | 18.8 | 233   | 109   | 54.7 | 0.72 | 19      | 36.8 | 18.7 | 231   | 108   | 50.5 | 69'0 | 50      | 3.86 | 18.3 | 224   | 105   |
|                             |     |                                      |           | MBh  | S/T  | Delta T | KW   | AMPS | HI PR | LO PR | MBh  | S/T  | Delta T | KW   | AMPS | HI PR | LO PR | MBh  | Z/S  | Delta T | KW   | AMPS | HI PR | LO PR |
|                             |     |                                      | Airflow   |      |      |         | 2085 |      |       |       |      |      |         | 1850 |      |       |       |      |      |         | 1625 |      |       |       |
|                             |     |                                      | IDB*      |      |      |         |      |      |       |       |      |      |         | 2    |      |       |       |      |      |         |      |      |       |       |

| _    |      |         |      | _    |     |       |      |      |         |      |      | _   |       |      | _    |         |      |      |      |       |   |
|------|------|---------|------|------|-----|-------|------|------|---------|------|------|-----|-------|------|------|---------|------|------|------|-------|---|
| 56.1 | 0.43 | 11      | 5.71 | 27.4 | 504 | 171   | 54.5 | 0.41 | 11      | 5.66 | 27.1 | 499 | 169   | 50.3 | 0.39 | 11      | 5.52 | 26.5 | 484  | 164   |   |
| 52.3 | 0.66 | 15      | 5.52 | 26.5 | 483 | 160   | 50.8 | 0.63 | 16      | 5.48 | 26.3 | 478 | 159   | 46.8 | 0.61 | 16      | 5.34 | 25.7 | 464  | 154   |   |
| 48.3 | 0.88 | 19      | 5.34 | 25.8 | 457 | 147   | 46.9 | 0.84 | 19      | 5.30 | 25.5 | 453 | 145   | 43.3 | 0.81 | 20      | 5.16 | 24.9 | 439  | 141   |   |
| 46.9 | 0.98 | 20      | 5.23 | 25.2 | 425 | 138   | 45.5 | 0.93 | 21      | 5.18 | 25.0 | 421 | 137   | 42.0 | 0.90 | 21      | 5.05 | 24.4 | 408  | 133   |   |
| 9.09 | 0.42 | 11      | 5.51 | 26.0 | 456 | 165   | 58.8 | 0.40 | 12      | 5.47 | 25.8 | 451 | 163   | 54.3 | 0.39 | 12      | 5.33 | 25.2 | 438  | 159   |   |
| 56.4 | 0.66 | 16      | 5.33 | 25.2 | 437 | 155   | 54.8 | 0.63 | 17      | 5.29 | 25.0 | 433 | 154   | 9.09 | 0.60 | 17      | 5.15 | 24.4 | 420  | 149   |   |
| 52.1 | 0.87 | 20      | 5.16 | 24.5 | 414 | 142   | 9.09 | 0.83 | 21      | 5.12 | 24.3 | 410 | 141   | 46.7 | 0.80 | 21      | 4.99 | 23.8 | 398  | 136   |   |
| 50.6 | 0.97 | 22      | 5.05 | 24.0 | 385 | 133   | 49.2 | 0.93 | 23      | 5.01 | 23.8 | 381 | 132   | 45.4 | 0.89 | 23      | 4.88 | 23.3 | 698  | 128   |   |
| 63.8 | 0.41 | 11      | 529  | 24.7 | 405 | 158   | 61.9 | 0.39 | 12      | 524  | 24.5 | 401 | 156   | 57.1 | 0.37 | 12      | 5.11 | 23.9 | 386  | 151   |   |
| 59.4 | 0.63 | 17      | 5.11 | 23.9 | 386 | 148   | 27.7 | 09.0 | 17      | 2.07 | 23.7 | 382 | 146   | 53.2 | 0.58 | 18      | 4.94 | 23.2 | 373  | 142   |   |
| 54.9 | 0.84 | 20      | 4.95 | 23.3 | 368 | 136   | 53.3 | 08.0 | 21      | 4.91 | 23.1 | 364 | 134   | 49.2 | 0.77 | 7       | 4.79 | 22.6 | 353  | 130   |   |
| 53.3 | 0.94 | 22      | 4.84 | 22.8 | 342 | 127   | 51.8 | 0.89 | 23      | 4.80 | 22.6 | 339 | 126   | 47.8 | 0.86 | 23      | 4.68 | 22.1 | 328  | 122   | 0 0 0 1 1 10                            |
| 65.3 | 0.39 | 11      | 5.05 | 23.3 | 326 | 150   | 63.4 | 0.38 | 12      | 4.98 | 23.2 | 352 | 149   | 58.6 | 0.36 | 12      | 4.85 | 22.6 | 342  | 144   | ( / / /                                 |
| 6.09 | 0.61 | 16      | 4.86 | 22.6 | 341 | 141   | 59.1 | 0.59 | 17      | 4.82 | 22.5 | 338 | 139   | 54.6 | 0.56 | 17      | 4.70 | 21.9 | 328  | 135   | ( ·                                     |
| 56.3 | 0.81 | 20      | 4.70 | 22.0 | 323 | 129   | 54.6 | 0.77 | 21      | 4.66 | 21.9 | 320 | 128   | 50.4 | 0.75 | 21      | 4.55 | 21.4 | 310  | 124   | . 0                                     |
| 54.6 | 0.91 | 22      | 4.60 | 21.6 | 300 | 121   | 53.0 | 0.86 | 23      | 4.57 | 21.4 | 297 | 120   | 49.0 | 0.83 | 23      | 4.45 | 21.0 | 288  | 116   | 0 = 0 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = |
| 6.99 | 0.39 | 11      | 4.71 | 21.8 | 313 | 144   | 65.0 | 0.37 | 12      | 4.68 | 21.6 | 310 | 143   | 0.09 | 0.35 | 12      | 4.56 | 21.1 | 301  | 139   | J.                                      |
| 62.4 | 09.0 | 16      | 4.56 | 21.1 | 300 | 136   | 9.09 | 0.57 | 17      | 4.53 | 21.0 | 297 | 134   | 55.9 | 0.55 | 17      | 4.42 | 20.5 | 288  | 130   | 2                                       |
| 57.6 | 0.79 | 20      | 4.42 | 20.6 | 284 | 124   | 55.9 | 0.75 | 21      | 4.39 | 20.4 | 281 | 123   | 51.6 | 0.73 | 21      | 4.28 | 20.0 | 273  | 119   |   |
| 56.0 | 88.0 | 22      | 4.33 | 20.2 | 264 | 117   | 54.3 | 0.84 | 23      | 4.29 | 20.0 | 261 | 116   | 50.2 | 0.81 | 23      | 4.19 | 19.6 | 524  | 112   |   |
| 68.5 | 0.37 | 11      | 4.37 | 20.4 | 279 | 137   | 99   | 0.35 | 12      | 4.34 | 20.3 | 276 | 135   | 61.4 | 0.34 | 12      | 4.23 | 19.8 | 268  | 131   | 9                                       |
| 63.9 | 0.58 | 16      | 4.23 | 19.8 | 267 | 128   | 62.0 | 0.55 | 17      | 4.20 | 19.7 | 265 | 127   | 57.2 | 0.53 | 17      | 4.10 | 19.3 | 257  | 123   | 0000                                    |
| 59.0 | 0.76 | 20      | 4.10 | 19.3 | 253 | 117   | 57.3 | 0.73 | 21      | 4.07 | 19.2 | 251 | 116   | 52.9 | 0.70 | 21      | 3.97 | 18.8 | 243  | 113   | į.                                      |
| 57.3 | 98.0 | 22      | 4.02 | 19.0 | 235 | 110   | 9:55 | 0.81 | 22      | 3.99 | 18.8 | 233 | 109   | 51.3 | 82.0 | 23      | 3.89 | 18.4 | 526  | 106   | 2                                       |
| MBh  | S/T  | Delta T | ΚM   | AMPS | 표   | LO PR | MBh  | S/T  | Delta T | ΚM   | AMPS | 표   | LO PR | MBh  | S/T  | Delta T | ΚW   | AMPS | H PR | LO PR | * IOO. Totaline Lade or C O C           |
|      |      |         | 2085 |      |     |       |      |      |         | 1850 |      |     |       |      |      |         | 1625 |      |      |       | *                                       |
|      |      |         |      |      |     |       | _    |      |         | 75   |      |     |       |      |      |         |      |      |      |       |   |

NOTE: Shaded area is ACCA (TVA) conditions High and low pressures are measured at the liquid and suction access fittings. \*IDB: Entering Indoor Dry Bulb Temperature

MODEL: GPC1360H41\*\*

### GPC1360H41BA

### **COOLING OPERATION**

# **EXPANDED PERFORMANCE DATA**

MODEL: GPC1360H41\*\*

Design Subcooling, 12±3 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 8±3 °F @ the compressor suction access fitting connection.

|                             |     |                                      | 71      | 55.7      | 0.61      | 15      | 5.76      | 27.6      | 609     | 173    | 54.1      | 0.58      | 16      | 5.71      | 27.4      | 504     | 171     | 49.9      | 0.56      | 16      | 5.56      | 26.7      | 489      | 166     |
|-----------------------------|-----|--------------------------------------|---------|-----------|-----------|---------|-----------|-----------|---------|--------|-----------|-----------|---------|-----------|-----------|---------|---------|-----------|-----------|---------|-----------|-----------|----------|---------|
|                             |     |                                      | 29      | 52.1      | 0.82      | 19      | 5.57      | 26.7      | 488     | 162    | 9.09      | 0.78      | 20      | 5.52      | 26.5      | 483     | 160     | 46.7      | 0.75      | 20      | 5.38      | 25.9      | 469      | 156     |
|                             | 115 |                                      | 63      | 48.8      | 1.00      | 22      | 5.39      | 26.0      | 462     | 148    | 47.4      | 96.0      | 23      | 5.34      | 25.8      | 457     | 147     | 43.7      | 0.93      | 23      | 5.21      | 25.1      | 444      | 142     |
|                             |     |                                      | 29      | 47.7      | 1.00      | 21      | 5.27      | 25.4      | 429     | 139    | 46.3      | 1.00      | 23      | 5.23      | 25.2      | 425     | 138     | 42.8      | 0.99      | 24      | 5.09      | 24.6      | 412      | 134     |
|                             |     |                                      | 71      | 60.1      | 0.61      | 16      | 5.56      | 26.2      | 461     | 167    | 58.4      | 0.58      | 17      | 5.51      | 26.0      | 456     | 165     | 53.9      | 0.56      | 17      | 5.37      | 25.4      | 442      | 160     |
|                             | 2   |                                      | 29      | 56.3      | 0.81      | 20      | 5.38      | 25.4      | 442     | 157    | 54.6      | 0.78      | 21      | 5.33      | 25.2      | 437     | 155     | 50.4      | 0.75      | 21      | 5.20      | 24.6      | 424      | 150     |
|                             | 105 |                                      | 63      | 52.7      | 1.00      | 23      | 5.21      | 24.7      | 418     | 143    | 51.1      | 96.0      | 24      | 5.16      | 24.5      | 414     | 142     | 47.2      | 0.92      | 22      | 5.03      | 23.9      | 402      | 138     |
|                             |     |                                      | 29      | 51.5      | 1.00      | 23      | 5.09      | 24.2      | 389     | 135    | 50.0      | 1.00      | 25      | 5.05      | 24.0      | 385     | 133     | 46.2      | 96.0      | 56      | 4.92      | 23.5      | 373      | 120     |
|                             |     |                                      | 71      | 63.3      | 620       | 16      | 5.33      | 24.9      | 409     | 159    | 61.5      | 920       | 17      | 529       | 24.7      | 405     | 158     | 56.7      | 0.54      | 17      | 5.15      | 24.1      | 393      | 153     |
|                             |     |                                      | 67      | 59.2      | 0.78      | 20      | 5.16      | 24.1      | 393     | 149    | 57.5      | 0.75      | 21      | 5.12      | 23.9      | 389     | 148     | 53.1      | 0.72      | 22      | 4.99      | 23.4      | 377      | 111     |
| rature                      | 92  | Entering Indoor Wet Bulb Temperature | ස       | 55.4      | 96.0      | 24      | 4.99      | 23.5      | 372     | 137    | 53.8      | 0.92      | 22      | 4.95      | 23.3      | 368     | 136     | 49.7      | 0.89      | 22      | 4.83      | 22.7      | 357      | 131     |
| Outdoor Ambient Temperature |     | b Temp                               |         |           | 1.00 0    |         |           |           |         | 129 1  |           |           | 792     |           |           |         |         | 48.6 4    |           | 792     |           | 22.3      |          |         |
| mbient                      |     | Vet Bull                             | 1 59    | .9 54.3   | _         | 16 24   | 36 4.88   | .5 23.0   | 359 345 | 152 12 | .0   52.7 | 54 0.98   | _       | 72 4.84   | .3 22.8   | 356 342 | 50 127  | Н         | 52 0.94   | 17 2    | 39 4.72   | 22.8   22 | 345 332  | 146 124 |
| door A                      |     | ndoor V                              | 7 71    | .7 64.9   | 76 0.57   | 20 10   | 90 2 06   | .8 23.5   |         | 142 15 | 63.0      | 72 0.54   | 1 17    | 36 5.02   | .6 23.3   |         | 150     | .4 58.2   | 70 0.52   |         | 4.74 4.89 |           |          |         |
| Out                         | 82  | ering Ir                             | 63 67   | 56.8 60.7 | 0.93 0.76 | 23 2    | 4.74 4.90 | 22.2 22.8 | 326 345 | 130 14 | 55.2 58.9 | 0.89 0.72 | 4 21    | 4.70 4.86 | 22.0 22.6 | 323 341 | 129 141 | 50.9 54.4 | 0.86 0.70 | 25 21   | 4.59 4.7  | 21.5 22.1 | 313 331  | 125 137 |
|                             |     | Ent                                  | 29   6  | 55.6 56   | 1.00 0.9  | 25 2    | 4.64 4.   | 21.8 22   | 303 37  | 122 13 | 54.0 55   | 0.95 0.8  | 25 24   | 4.60 4.   | 21.6 22   | 300     | 121 12  | 49.8 50   |           | 26 2    | 4.49 4.   | 21.1 21   | 291 3    | 118 12  |
|                             |     |                                      | 71 5    | 66.5 55   | 0.55 1.   | 16   2  | 4.75 4.   | 21.9 21   | 316 3   | 146 12 | 64.5 54   | 0.53 0.   | 17 2    | 4.72 4.   | 21.8 21   | 313 30  | 144     | 59.6 46   | 0.51 0.91 | 17 2    | 4.60 4.   | 21.3 21   | 304   29 | 140 1   |
|                             |     |                                      | 2 29    | 62.2 66   | 0.74 0.   | 20 1    | 4.60 4.   | 21.3 21   | 303 3   | 137 1. | 60.4 64   | 0.71 0.   | 21 1    | 4.57 4.   | _         | 300     | 136 1   | 55.7 59   | 0.68 0.   | 21 1    | 4.45 4.   | 2         | 291 30   | 131 1,  |
|                             | 72  |                                      | 63 6    | 58.2 62   |           | 23 2    | 4.46 4.   | 20.7 21   | 287 30  | 125 13 | 56.5 60   | 0.87      | 24 2    | 4.42 4.   | 20.6 21.7 | 284 30  | 124 13  | 52.2 55   | 0.84 0.   | 25 2    |           | 0.1 20.7  | 276 29   | 120 13  |
|                             |     |                                      | 29 6    | 57.0 58   | 0.97 0.91 | 24 2    | 4.36 4.   | 20.3 20   | 267 28  | 118 12 | 55.3 56   | 0.92 0.8  | 25 2    | 4.33 4.   | 20.2      | 264 28  |         | 51.0 52   | 0.89      | 26 2    | 4.22 4.31 | 19.7 20.1 | 256 27   | 113 1   |
|                             | Н   |                                      | 71 5    | 68.1 57   | 0.53 0.   | 16 2    | 4.41 4.   | 20.6      | 282     | 138 1  | 66.1 5    | 0.51 0.   | 17 2    | 4.37 4.   | 20.4      | 279 2   | 137 1   | 61.0 5    | 0.49 0.   | 17 2    | 4.26 4.   | 20.0      | 271 2    | 133 1   |
|                             |     |                                      | . 29    | 63.7 6    | 0.71 0    | . 50    | 4.27 4    | 20.0      | 270 2   | 130 1  | 61.8 6    | 0.68      | . 12    | 4.23 4    | 19.8      | 267 2   | 128 1   | 57.1 6    | 0.66      | . 12    | 4.13 4    | 19.4      | 259 2    | 124 1   |
|                             | 65  |                                      | 63      | 59.6 6    | 0.88 0    | 23      | 4.14 4    | 19.5 2    | 256 2   | 119 1  | 9 6.79    | 0.84 0    | 24      | 4.10 4    | 19.3      | 253 2   | 117 1   | 53.4 5    | 0.81 0    | 24      | 4.01 4    | 18.9 1    | 246 2    | 114 1   |
|                             |     |                                      | 29      | 58.3 5    | 0.94 C    | 24      | 4.05 4    | 19.1 1    | 238 2   | 112 1  | 56.6 5    | 0.89      | 25      | 4.02 4    | 19.0 1    | 235 2   | 110 1   | 52.3 5    | 0.86      | 25      | 3.92 4    | 18.6 1    | 228 2    | 107     |
|                             |     |                                      |         |           |           |         |           |           |         | Н      |           |           |         |           |           |         |         |           |           |         |           |           |          | H       |
|                             |     |                                      |         | MBh       | S/I       | Delta T | KW        | AMPS      | H<br>R  | LO PR  | MBh       | Ŋ         | Delta T | KW        | AMPS      | H PR    | LO PR   | MBh       | S/T       | Delta T | KW        | AMPS      | H PR     | 4d O    |
|                             |     |                                      | Airflow |           |           |         | 2085      |           |         |        |           |           |         | 1850      |           |         |         |           |           |         | 1625      |           |          |         |
|                             |     |                                      | IDB*    | $\vdash$  |           |         |           |           |         |        | <b>—</b>  |           |         | 8         |           |         | _       | _         |           |         |           |           |          |         |

| 6         58.0         59.1         61.9         66.0         56.0         57.7         60.4         64.0           89         1.00         0.98         0.72         1.00         1.00         0.91         0.74           44         26         26         24         21         25         25         24         21           37         26         26         24         21         25         24         21         27         24         21           37         26.5         26         24         4.78         4.68         4.78         4.94         5.10           37         20.5         20.9         21.4         22.1         21.9         22.4         23.0         23.7           38         119         127         138         147         124         132         144         153           41         26.3         57.4         60.1         64.1         54.9         56.0         58.6         62.6           56.3         57.4         60.1         64.1         54.9         66.0         68.0         69.0           27         27         25         22         27         27         22.1   |      |      |         |          |      |     |       |      |      | ,       | U    | •    | •        |       |      |      | ,       | ,,   | •    | T      |       | <b>_</b>                                     |
|--|------|------|---------|----------|------|-----|-------|------|------|---------|------|------|----------|-------|------|------|---------|------|------|--------|-------|--|
| 68.0         58.1         68.1         68.0         68.1         68.0         68.0         68.0         68.0         68.0         68.0         68.0         68.0         68.0         68.0         68.0         68.0         68.0         68.0         68.0         68.0         68.0         67.2         1.00 <th< td=""><td>55.3</td><td>0.80</td><td>19</td><td>5.81</td><td>27.8</td><td>514</td><td>174</td><td>53.7</td><td>0.76</td><td>20</td><td>5.76</td><td>27.6</td><td>609</td><td>173</td><td>49.6</td><td>0.73</td><td>21</td><td>5.61</td><td>26.9</td><td>494</td><td>167</td><td></td></th<>  | 55.3 | 0.80 | 19      | 5.81     | 27.8 | 514 | 174   | 53.7 | 0.76 | 20      | 5.76 | 27.6 | 609      | 173   | 49.6 | 0.73 | 21      | 5.61 | 26.9 | 494    | 167   |  |
| 6         58.0         58.1         6.1.9         66.0         56.6         57.7         60.4         64.4         56.2         56.3         58.9         62.9         52.4         53.5         56.0         59.7         48.6           1         100         0.98         0.89         0.72         1.00         1.00         0.91         1.00         1.00         1.00         1.00         1.00         1.00         1.00         0.94         0.76         1.00         1.00         0.97         1.00         1.00         0.91         0.74         1.00         1.00         0.94         0.76         1.00         1.00         0.91         0.74         1.00         1.00         0.94         0.76         1.00         0.99         0.90         0.90         0.90         237         23.7         23.6         24.3         25.1         24.4         24.0         25.2         24.4         24.1         29.8         26.0         28.0   | 51.9 | 0.98 | 22      | 5.62     | 26.9 | 493 | 164   | 50.3 | 0.94 | 23      | 5.57 | 26.7 | 488      | 162   | 46.5 | 0.90 | 24      | 5.43 | 26.1 | 473    | 157   |  |
| 6         6.8.0         6.8.1         6.8.1         6.8.0         6.8.1         6.8.0         6.8  | 49.5 | 1.00 | 22      | 5.44     | 26.2 | 467 | 150   | 48.1 | 1.00 | 24      | 5.39 | 26.0 | 462      | 148   | 44.4 | 1.00 | 25      | 5.25 | 25.3 | 448    | 144   |  |
| 6         68.0         59.1         61.9         66.0         56.6         57.7         60.4         64.4         56.2         56.3         58.9         62.9         62.4         53.5         56.0         50.4         67.0         50.0         1.00         0.34         1.00         1.  | 48.6 | 1.00 | 21      | 5.32     | 25.6 | 434 | 141   | 47.2 | 1.00 | 23      | 5.27 | 25.4 | 429      | 139   | 43.5 | 1.00 | 22      | 5.14 | 24.8 | 416    | 135   |  |
| 6         58.0         59.1         61.9         66.0         66.6         67.7         60.4         64.4         55.2         56.3         58.9         62.9         62.9         62.4         63.6           1.00         0.98         0.89         0.72         1.00         1.00         0.91         0.74         1.00         1.00         0.94         0.76         1.00         1.00           4         1.00         0.98         0.89         0.72         1.00         1.00         0.91         0.74         1.00         1.00         0.94         0.76         1.00   | 59.7 | 0.79 | 21      | 5.61     | 26.4 | 465 | 168   | 28.0 | 0.75 | 22      | 5.56 | 26.2 | 461      | 167   | 53.5 | 0.73 | 22      | 5.42 | 25.6 | 447    | 162   |  |
| 6         58.0         59.1         61.9         66.0         56.6         57.7         60.4         64.4         55.2         56.3         58.9         62.9         62.9         52.4         21         26.         26.         26.         26.         26.         26.         27.         1.00         0.31         0.74         1.00         1.00         0.94         0.76         0.76         1.00         1.00         0.94         1.00         0.94         0.76         1.00         0.94         0.76         1.00         0.94         0.76         1.00         0.94         0.76         1.00         0.94         0.76         1.00         0.94         0.76         1.00         0.94         0.76         1.00         0.94         0.76         1.00         0.94         0.76         1.00         0.93         0.76         1.00         0.94         0.76         1.00         0.94         0.76         1.00         0.93         0.94         0.76         1.00         0.93         0.94         0.76         0.77         1.00         0.93         0.94         0.78         0.79         0.74         1.00         0.93         0.93         0.94         0.71         0.74         1.00         0.93   | 26.0 | 0.97 | 54      | 5.42     | 25.6 | 446 | 158   | 54.4 | 0.93 | 25      | 5.38 | 25.4 | 442      | 157   | 50.2 | 0.89 | 25      | 5.24 | 24.8 | 428    | 152   |  |
| 6         58.0         59.1         61.9         66.0         56.6         57.7         60.4         64.4         55.2         56.3         58.9         62.9         62.9           89         1.00         0.98         0.72         1.00         1.00         0.91         0.74         1.00         1.00         0.94         0.76         0.94         0.76           4         1.00         0.98         0.72         1.00         1.00         0.91         0.74         1.00         1.00         0.94         0.76         0.94         0.76         0.79         0.70         0.90         0.90         0.90         0.70   | 53.5 | 1.0  | 54      | 5.25     | 24.9 | 422 | 145   | 51.9 | 1.00 | 26      | 5.21 | 24.7 | 418      | 143   | 47.9 | 0.39 | 27      | 5.07 | 24.1 | 406    | 139   |  |
| 6         58.0         59.1         61.9         66.0         56.6         57.7         60.4         64.4         56.2         56.3         58.9           89         1.00         0.98         0.89         0.72         1.00         1.00         0.91         0.74         1.00 <td>-</td> <td>7</td> <td>23</td> <td>5.13</td> <td>24.4</td> <td>392</td> <td>136</td> <td>50.9</td> <td>1.00</td> <td>25</td> <td>5.09</td> <td>24.2</td> <td>389</td> <td>135</td> <td>47.0</td> <td>1.00</td> <td>27</td> <td>4.96</td> <td>23.6</td> <td>377</td> <td>131</td> <td></td>   | -    | 7    | 23      | 5.13     | 24.4 | 392 | 136   | 50.9 | 1.00 | 25      | 5.09 | 24.2 | 389      | 135   | 47.0 | 1.00 | 27      | 4.96 | 23.6 | 377    | 131   |  |
| 6         58.0         59.1         61.9         66.0         56.6         57.7         60.4         64.4         55.2         56.3         56.3           89         1.00         0.98         0.89         0.72         1.00         1.00         0.91         0.74         1.00         1.00           44         26         26         24         21         25         25         24         21         24         25         26         24         27         1.00   | 62.9 | 0.76 | 21      | 5.38     | 25.1 | 414 | 161   | 61.0 | 0.73 | 22      | 5.33 | 24.9 | 409      | 159   | 56.3 | 0.70 | 22      | 520  | 24.3 | 397    | 154   |  |
| 6         58.0         59.1         61.9         66.0         56.6         57.7         60.4         64.0           89         1.00         0.98         0.89         0.72         1.00         1.00         0.91         0.74           44         2.6         2.4         2.1         2.5         2.5         2.4         2.1           7.7         2.0.         2.0.         2.0.         1.00         1.00         0.91         0.74           7.7         2.0.         2.0.         2.1.4         2.2.1         2.2.4         2.30         2.7           3.0         2.0.         2.0.         2.1.4         2.2.1         2.0.         2.0.         2.0.           3.0         2.0.         2.0.         2.1.4         2.2.1         2.1.9         2.2.4         2.10         0.7           3.0         2.0         2.1.4         2.2.1         2.1.3         2.0         2.2  | 58.9 | 0.94 | 24      | 5.20     | 24.3 | 396 | 151   | 57.2 | 0.89 | 25      | 5.16 | 24.1 | 393      | 149   | 52.8 | 98.0 | 26      | 5.03 | 23.5 | 381    | 145   | m power                                      |
| 6         58.0         59.1         61.9         66.0         56.6         57.7         60.4         64.0           89         1.00         0.98         0.89         0.72         1.00         1.00         0.91         0.74           44         2.6         2.4         2.1         2.5         2.5         2.4         2.1           7.7         2.0.         2.0.         2.0.         1.00         1.00         0.91         0.74           7.7         2.0.         2.0.         2.1.4         2.2.1         2.2.4         2.30         2.7           3.0         2.0.         2.0.         2.1.4         2.2.1         2.0.         2.0.         2.0.           3.0         2.0.         2.0.         2.1.4         2.2.1         2.1.9         2.2.4         2.10         0.7           3.0         2.0         2.1.4         2.2.1         2.1.3         2.0         2.2  | 56.3 | 1.00 | 53      | 5.03     | 23.6 | 375 | 138   | 54.6 | 0.99 | 22      | 4.99 | 23.5 | 372      | 137   | 50.4 | 0.95 | 22      | 4.87 | 22.9 | 361    | 133   | KW = Total system power                      |
| 6         58.0         59.1         61.9         66.0         56.6         57.7         60.4           89         1.00         0.98         0.89         0.72         1.00         1.00         0.91           44         2.6         2.6         2.4         2.1         2.5         2.5         2.4           4.7         4.60         4.50         4.64         4.70         4.78         4.78         4.94           4.7         2.0.5         20.9         21.4         22.1         21.9         22.4         23.0           34         2.69         2.0.9         21.4         22.1         21.9         22.4         23.0           34         2.69         2.0.9         21.4         22.1         21.9         22.4         23.0           34         2.69         2.0         21.4         22.1         21.9         22.4         23.0           35         1.19         1.27         1.38         1.47         1.24         1.32         1.44           4.60         6.0         1.0         0.60         0.99         0.96         0.87         2.2         2.2           2.7         2.7         2.7         2.7   | 55.2 | 1.00 | 54      | 4.93     | 23.2 | 349 | 130   | 53.6 | 1.00 | 27      | 4.88 | 23.0 | 345      | 129   | 49.5 | 0.99 | 28      | 4.76 | 22.5 | 332    | 125   | KW = T                                       |
| 6         58.0         59.1         61.9         66.0         56.6         57.7           89         1.00         0.98         0.89         0.72         1.00         1.00           1         26         26         24         21         25         25           44.40         4.50         4.64         4.79         4.68         4.78           7         20.5         20.9         21.4         22.1         22.4         23           34         269         290         306         319         306         320           39         119         127         138         147         124         132           40         60.37         0.34         0.84         0.69         0.39         0.36           50         0.37         0.34         0.84         0.69         0.39         0.36           50         0.37         27         27         27         27         27           44         4.36         4.60         4.75         4.64         4.74         4.74           45         2.07         2.13         2.14         2.22         2.2         2.2           26         27  | 64.4 | 0.74 | 21      | 5.10     | 23.7 | 363 | 153   | 62.6 | 0.70 | 22      | 5.06 | 23.5 | 329      | 152   | 57.7 | 0.68 | 22      | 4.93 | 23.0 | 349    | 147   |  |
| 6         58.0         59.1         61.9         66.0         56.0           99         1.00         0.98         0.89         0.72         1.00           1         26         26         24         21         25           44.40         4.50         4.64         4.79         4.68           1.7         20.5         20.9         21.4         22.1         21.9           34         269         290         306         319         306           39         119         127         138         147         124           30         119         127         138         147         124           30         119         127         138         147         124           30         119         127         138         147         124           30         119         127         138         147         124           30         103         1034         0.69         0.99         29           44         4.36         4.46         4.60         4.75         4.64           45         2.07         2.13         2.14         2.18           46         2.   | 60.4 | 0.91 | 24      |          | 23.0 | 348 | 144   | 58.6 | 0.87 | 25      | 4.90 | 22.8 | 345      | 142   | 54.1 | 0.83 | 26      | 4.78 | 22.3 | 334    | 138   | erature                                      |
| 6         58.0         59.1         61.9         66.0           89         1.00         0.98         0.89         0.72           44         26         26         24         21           44         4.40         4.50         4.64         4.79           7.7         20.5         20.9         21.4         22.1           34         269         290         306         319           39         119         127         138         147           40         4.50         20.9         306         319           56         0.97         0.94         0.84         0.69           27         27         25         22           27         27         25         22           44         4.36         4.46         4.60         4.75           44         4.36         4.46         4.60         4.75           45         20.3         20.7         21.3         21.9           38         118         125         137         46           46         20.3         20.0         0.81         0.66           51.9         20.2         20.2         20 </td <td>57.7</td> <td>1.00</td> <td>52</td> <td>4.78</td> <td>22.4</td> <td>330</td> <td>132</td> <td>26.0</td> <td>0.96</td> <td>27</td> <td>4.74</td> <td>22.2</td> <td>326</td> <td>130</td> <td>51.7</td> <td>0.93</td> <td>27</td> <td>4.62</td> <td>21.7</td> <td>317</td> <td>126</td> <td>Tempe</td>   | 57.7 | 1.00 | 52      | 4.78     | 22.4 | 330 | 132   | 26.0 | 0.96 | 27      | 4.74 | 22.2 | 326      | 130   | 51.7 | 0.93 | 27      | 4.62 | 21.7 | 317    | 126   | Tempe  |
| 6         58.0         59.1         61.9           89         1.00         0.98         0.89           1         26         26         24           44         4.40         4.50         4.64           1.7         20.5         20.9         21.4           34         269         290         306           39         119         127         138           16         56.3         57.4         60.1           86         0.97         0.94         0.84           2         27         25         27           41         4.36         4.46         4.60           86         0.97         0.94         0.84           2         27         27         25           41         4.36         4.46         4.60           86         10.93         20.7         21.3           86         1.25         137           87         27         26           30         1.30         0.90         0.81           80         2.7         2.7         26           30         2.7         2.7         2.2           30 <td>9.95</td> <td>1.00</td> <td>52</td> <td>4.68</td> <td>21.9</td> <td>306</td> <td>124</td> <td>54.9</td> <td>0.99</td> <td>27</td> <td>4.64</td> <td>21.8</td> <td>303</td> <td>122</td> <td>20.7</td> <td>96.0</td> <td>28</td> <td>4.53</td> <td>21.3</td> <td>294</td> <td>119</td> <td>Indoor Dry Bulb Temperature</td>  | 9.95 | 1.00 | 52      | 4.68     | 21.9 | 306 | 124   | 54.9 | 0.99 | 27      | 4.64 | 21.8 | 303      | 122   | 20.7 | 96.0 | 28      | 4.53 | 21.3 | 294    | 119   | Indoor Dry Bulb Temperature                  |
| 69         58.0         59.1         6           10         0.98         0         1           1         26         26         2           1,00         0.98         0         0           1,1         26         26         2           2,7         20.5         20.9         2           3,4         269         29         3           3,6         119         127         1           1,6         56.3         57.4         6           2,7         27         27         27           3,7         267         287         3           3,8         118         125         1           4,2         2,0         2         2           3,8         118         125         1           4,2         4,3         2         3           4,2         4,2         3         4           4,2         4,3         4         4           4,3         4,2         4         4           4,2         4,3         4         4           4,2         4,3         4         4           4,2         4   |      | 0.72 | 7       | 4.79     | 22.1 | 319 | 147   | 64.1 | 0.69 | 22      | 4.75 | 21.9 | 316      | 146   |      | 99.0 | 22      | 4.64 |      | 307    | 141   | Indoor                                       |
| 56.0<br>58.0<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00 | 6    | o.   | 54      | 4.       | 7    | 306 | 138   |      | 0    | 25      | 4    | 21.3 | 303      | 137   |      | 0    | 26      | 4.   |      | 294    | 133   | ij   |
| 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  |      | - 1  | 26      |          |      | 290 | 127   |      |      | 27      |      | l    | 287      | 125   |      |      | 27      |      |      | 278    | 122   | IDB: Entel                                   |
| MBh 59.3 60.5 63.3 67.6 ST MBh ST MBh 69.3 60.5 63.3 67.6 ST MBh 69.3 60.95 0.85 0.69 0.69 0.69 0.69 0.69 0.69 0.69 0.69   | Н    | 4    | 26      | $\vdash$ | _    | 269 | H     |      | Н    | 27      | _    | ⊢    | 267      | 118   | _    | -    | 27      | 4.26 | 19.9 | 259    | _     |  |
| MBh 59.3 60.5 63.3  SyT 0.98 0.95 0.85  Delta T 26 25 24  ORS KW 4.08 4.17 4.30  AMPS 19.2 19.6 20.1  HI PR 240 258 273  LO PR 113 120 131  MBh 57.6 58.7 61.5  SyT 0.94 0.90 0.81  Delta T 27 26 25  KW 4.05 4.14 4.27  AMPS 19.1 19.5 20.0  HI PR 238 256 270  LO PR 112 119 130  MBh 53.2 54.2 56.8  SyT 0.90 0.87 0.79  Delta T 27 27 26  SyT 0.90 0.87 0.79  Delta T 27 27 25  AMPS 112 119 130  MBh 53.2 54.2 56.8  SyT 0.90 0.87 0.79  Delta T 27 27 25  AMPS 18.7 19.0 19.5  HI PR 231 248 262  HI PR 231 248 262  |      |      | 7       |          |      |     | 139   |      |      |         |      |      |          |       |      |      |         |      |      |        |       | itions                                       |
| MBh 59.3 60.5 ST 0.38 0.95 ST 0.38 0.95 Deta T 26 25 AMPS 19.2 19.6 HI PR 240 258 HI PR 240 258 HI PR 240 258 CO PR 113 120 MBh 57.6 58.7 ST 0.94 0.90 Deta T 27 26 KW 4.05 4.14 AMPS 19.1 19.5 HI PR 238 256 LO PR 112 119 MBh 53.2 54.2 CO PR 112 119 MBh 33.5 54.04 AMPS 18.7 19.0 HI PR 231 241 CO PR 112 119 MBh 233 256 HI PR 238 256 HI PR 231 248 HI PR 231 248  |      | - 1  | 54      |          |      |     |       |      |      |         |      |      |          |       |      |      | 25      |      |      |        |       | g Cond                                       |
| MBh 59.2  ST 0.95  ST 0.95  Delta T 26  AMPS 19.2  HI PR 240  LO PR 113  MBh 57.6  ST 0.94  ST 0.94  MBh 19.1  HI PR 238  LO PR 19.1  HI PR 238  LO PR 19.1  MBh 53.2  AMPS 19.1  MBh 53.2  AMPS 19.1  HI PR 238  LO PR 112  MBh 53.2  AMPS 19.1  HI PR 238  LO PR 112  MBh 53.2  AMPS 18.7  HI PR 238  HI PR 238  LO PR 112  MBh 53.2  AMPS 18.7  HI PR 238  LO PR 112  MBh 53.2  AMPS 18.7   |      |      |         |          |      |     |       |      |      |         |      |      |          |       |      |      |         |      |      |        |       | RI Ratin                                     |
| 85 KW AMPS AMPS AMPS AMPS AMPS AMPS AMPS AMPS  | 59.3 | 0.38 | 26      | 4.08     | 19.2 | 240 | 113   | 57.6 | 0.94 | 27      | 4.05 | 19.1 | 238      | 112   | 53.2 | 0.30 | 27      | 3.95 | 18.7 | 231    | 108   | s is AH                                      |
| 880 882  | MBh  | ⊳S   | Delta T | KW       | AMPS | 표   | LO PR | MBh  | S/T  | Delta T | ΚM   | AMPS | H<br>K   | LO PR | MBh  | S/T  | Delta T | ΚM   | AMPS | H<br>R | LO PR | aded area                                    |
| 0  |      | !    |         | 2085     |      |     |       |      |      |         | 1850 | -    | <u> </u> | ı     |      |      |         | 1625 |      |        |       | NOTE: Shaded areas is AHRI Rating Conditions |
| 8  |      |      |         |          |      |     |       |      |      |         | 82   |      |          |       |      |      |         |      |      |        |       | *  |

NOIE: Shaded areas is AHRI Rating Conditions
High and low pressures are measured at the liquid and suction access fittings.

Ire KW = 1 dtal system power AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

### **PERFORMANCE TEST**

All data based upon listed indoor dry bulb temperature. .00 inches external static pressure on coil of outdoor section. Indoor air cubic feet per minute (CFM) as listed in the Performance Data Sheets:

If conditions vary from this, results will change as follows:

- 1. As indoor dry bulb temperatures increase, a slight increase will occur in indoor air temperature drop (Delta T). Low and high side pressures and power will not change.
- 2. As indoor CFM decreases, a slight increase will occur in indoor temperature drop (Delta T). A slight decrease will occur in low and high side pressures and power.

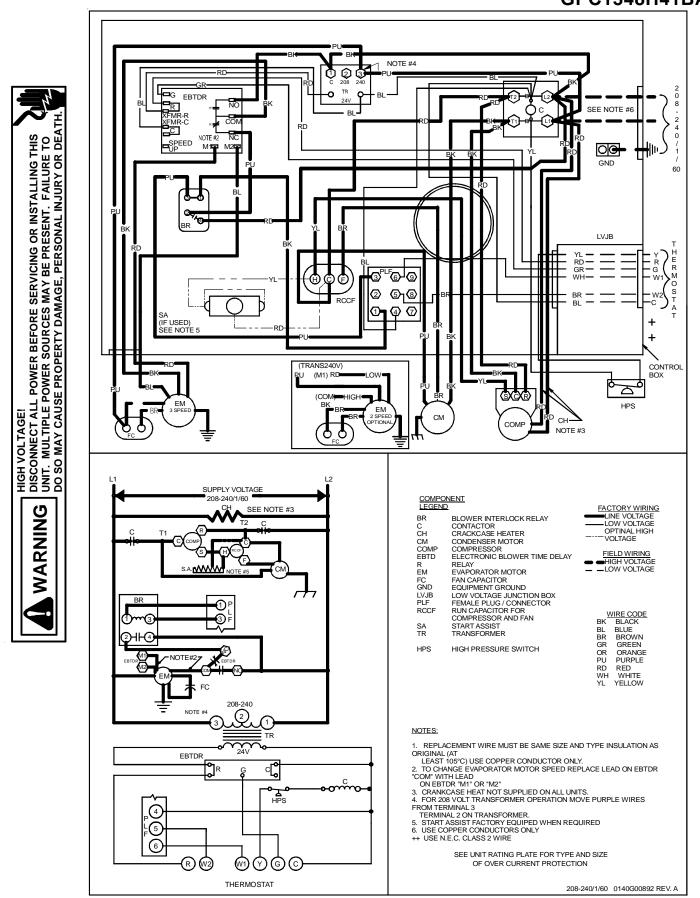
A properly operating unit should be within plus or minus **3 degrees** of the typical (**Delta T**) value shown.

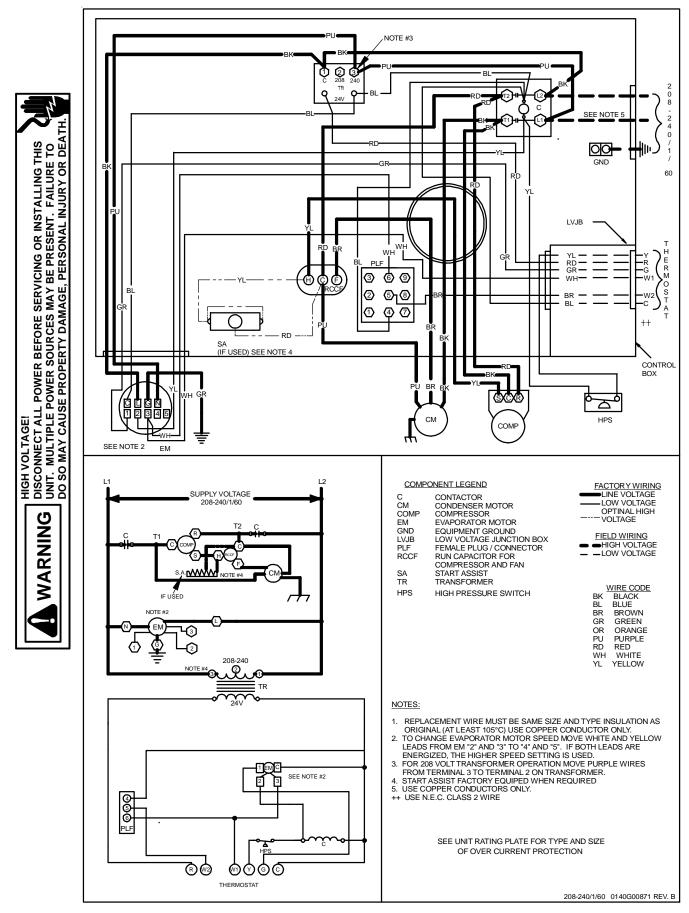
A properly operating unit should be within plus or minus **7 PSIG** of the **HI PR** shown.

A properly operating unit should be within plus or minus **3 PSIG** of the **LO PR** shown.

A properly operating unit should be within plus or minus 3 Amps of the typical value shown.

### WIRING DIAGRAMS





Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

### **GPC 13 SEER R-410A 5 mm Package Air Conditioners**

GPC1324H41AB GPC1342H41AB GPC1330H41AB GPC1349H41AA GPC1336H41AB GPC1360H41BB

### PRODUCT DESIGN

GPC Package Cooling Units are designed for outdoor installations only in either residential or light commercial applications.

The connecting ductwork (Supply and Return) can be connected for either horizontal or vertical airflow. In the vertical application a matching Roof Curb is recommended.

A return air filter must be installed behind the return air grille(s) or provision must be made for a filter in an accessible location within the return air duct. The minimum filter area should not be less than those sizes listed in the Specification Section. Under no circumstances should the unit be operated without return air filters.

A 3/4" PVC pipe is provided for removal of condensate water from the indoor coil In order to provide proper condensate flow, a drain trap is supplied and shipped loose inside the unit for field installation. (Do not reduce the drain line size.)

Refrigerant flow control is achieved by use of restrictor orifices. GPC units use the FasTest Access Fitting System with a saddle that is either soldered to the suction and liquid lines or is fastened with a locking nut to the access fitting box (core) and then screwed into the saddle. **Do not remove the core from the saddle until the refrigerant charge has been removed. Failure to do so could result in property damage or personal injury.** 

The single phase units use permanent split capacitor (PSC) design compressors. Starting components are therefore not required for these units. A low microfarad run capacitor assists the compressor to start and remains in the circuit during operation.

The outdoor fan and indoor blower motors are single phase capacitor type motors with the exception of the GPC1360H41\* units which have X-13 indoor blower motors that are energized by a 24V signal from the thermostat and are constant torque motors with very low power consumption. The X-13 features an integral control module.

Air for condensing (cooling cycle) is drawn through the outdoor coil by a propeller fan, and is discharged vertically out the top of the unit. The outdoor coil is designed for .0 static. No additional restriction (ductwork) shall be applied.

Conditioned air is drawn through the filter(s), field installed, across the coil and back into the conditioned space by the indoor blower.

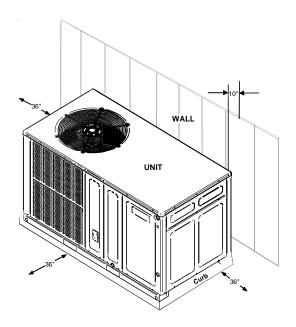
GPC1324-60H41\*\* use Copeland Scroll Compressors. There are a number of design characteristics which are different from the traditional reciprocating compressors.

- Due to their design Scroll Compressors are inherently more tolerant of liquid refrigerant. NOTE: Even though the compressor section of a Scroll compressor is more tolerant of liquid refrigerant, continued floodback or flooded start conditions may wash oil from the bearing surfaces causing premature bearing failure.
- Scroll Compressors use white oil which is compatible with 3GS oil which may be used if additional oil is required.
- Operating pressures and amp draws may differ from standard reciprocating compressors. This information may be found in the "Cooling Performance Data" section.

### PRODUCT DESIGN

### Location and Clearances

**NOTE:** To ensure proper condensate drainage, unit must be installed in a level position.



In installations where the unit is installed above ground level and not serviceable from the ground (Example: Roof Top installations), the installer must provide service platform for service person with rails or guards in accordance with local codes or ordinances or in their absence with the latest edition of the Uniform Mechanical Code Section 305.

NOTE: Unit can also use roof curb.

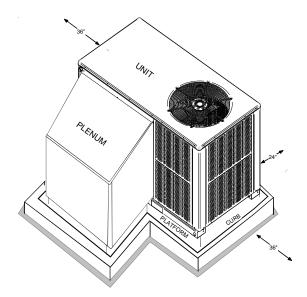


TO PREVENT POSSIBLE PROPERTY DAMAGE, THE UNIT SHOULD REMAIN IN AN UPRIGHT POSITION DURING ALL RIGGING AND MOVING OPERATIONS. TO FACILITATE LIFTING AND MOVING IF A CRANE IS USED, PLACE THE UNIT IN AN ADEQUATE CABLE SLING.

Refer to Roof Curb Installation Instructions for proper curb installation. Curbing must be installed in compliance with the National Roofing Contractors Association Manual.

### **Outside Slab Installation - Horizontal (H)**

Minimum clearances are required to avoid air recirculation and keep the unit operating at peak efficiency.



**Rooftop Installation - Horizontal (H)** 

### PACKAGE COOLING SPECIFICATIONS

### GPC13[24-36]H41AB

|               |   |                 | <b>_</b>         |                 |
|---------------|---|-----------------|------------------|-----------------|
|               |   | GPC1324H41AB    | GPC1330H41AB     | GPC1336H41AB    |
| COOLING       | COOLING CAPACITY, BTUH                  | 24,000          | 28,600           | 36,000          |
| CAPACITY      | SEER                                    | 13.0            | 13.0             | 13.0            |
| UNIT          | VOLTAGE (NAMEPLATE)                     | 208-230/1/60    | 208-230/1/60     | 208-230/1/60    |
| ELECTRICAL    | AMPS (TOTAL)                            | 16.1            | 15.76            | 20.06           |
| SPECIFICATION | MINIMUM CIRCUIT AMPACITY                | 19.5            | 19               | 24.2            |
|               | MAXIMUM OVERCURRENT PROTECTION (1)      | 30              | 30               | 40              |
| COMPRESSOR    | TYPE                                    | SCROLL          | SCROLL           | SCROLL          |
|               | RATED LOAD AMPS                         | 13.5            | 12.8             | 16.7            |
|               | LOCKED ROTOR AMPS                       | 58.3            | 64               | 79              |
| CONDENSER     | HORSEPOWER                              | 1/6             | 1/6              | 1/4             |
| FAN MOTOR     | RPM                                     | 815             | 815              | 830             |
|               | FULL LOAD AMPS                          | 1.1             | 1.1              | 1.5             |
|               | LOCKED ROTOR AMPS                       | 1.7             | 1.7              | 3.0             |
| CONDENSER FAN | BLADE DIAMETER (INCHES) /# OF BLADES    | 22 / 2          | 22 / 2           | 22 / 4          |
| CONDENSER     | FACE AREA - SQ. FT.                     | 12.3            | 12.3             | 12.3            |
| COIL          | NUMBER OF ROWS                          | 1               | 1                | 1               |
|               | FINS PER INCH                           | 26              | 26               | 26              |
| EVAPORATOR    | HORSEPOWER - NO. OF SPEEDS              | 1/4 - 3         | 1/3 - 3          | 1/3 - 3         |
| BLOWER        | FULL LOAD AMPS                          | 1.5             | 1.86             | 1.86            |
| MOTOR         | LOCKED ROTOR AMPS                       | 2.2             | 3.2              | 3.2             |
|               | MOTOR SPEED TAP - COOLING               | MEDIUM          | LOW              | LOW             |
|               | RPM                                     | 1075            | 1075             | 1075            |
| EVAPORATOR    | DIAMETER X WIDTH (INCHES)               | 9 x 6           | 9 x 6            | 9 x 8           |
| BLOWER        | RATED SCFM COOLING                      | 815             | 1,080            | 1,205           |
|               | MAX EXTERNAL STATIC PRESS ("w.c.)       | 0.5             | 0.5              | 0.5             |
| EVAPORATOR    | FACE AREA - SQ. FT.                     | 4.6             | 4.6              | 5.2             |
| COIL          | NUMBER OF ROWS                          | 3               | 3                | 3               |
|               | FINS PER INCH                           | 14              | 14               | 14              |
| GENERAL       | FILTER SIZE - SQ. FT. *                 | 20 x 20 x 1     | 20x 25 x 1       | 25 x 25 x 1     |
| INFORMATION   | DRAIN SIZE (INCHES)                     | 3/4"            | 3/4"             | 3/4"            |
|               | EXPANSION DEVICE                        | ORIFICE (0.057) | ORRIFICE (0.062) | ORIFICE (0.068) |
|               | REFRIGERANT CHARGE R-410A (Oz.)         | 63              | 62               | 61              |
|               | POWER SUPPLY CONDUIT KNOCKOUT SIZE (IN. | 3/4, 1, 1-1/4   | 3/4, 1, 1-1/4    | 3/4, 1, 1-1/4   |
|               | LOW VOLTAGE CONDUIT KNOCKOUT SIZE (IN.) | 1/2             | 1/2              | 1/2             |
|               | SHIPPING WEIGHT LBS.                    | 290             | 290              | 370             |
|               | OPERATING WEIGHT LBS.                   | 280             | 280              | 360             |
| ,             | •                                       |                 |                  |                 |

<sup>(1)</sup> Maximum Overcurrent Protection Device: **MUST** use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted.

<sup>\*</sup> Calculated external filter size based on air velocity of 300 ft/min.

|               |  | GPC1342H41AB    | GPC1349H41AA          | GPC1360H41BB    |
|---------------|--|-----------------|-----------------------|-----------------|
| COOLING       | COOLING CAPACITY, BTUH                   | 41,000          | 45,500                | 57,500          |
| CAPACITY      | SEER                                     | 13.0            | 13.0                  | 13.0            |
| UNIT          | VOLTAGE (NAMEPLATE)                      | 208-230/1/60    | 208-230/1/60          | 208-230/1/60    |
| ELECTRICAL    | AMPS (TOTAL)                             | 22.17           | 24.17                 | 33.6            |
| SPECIFICATION | MINIMUM CIRCUIT AMPACITY                 | 26.6            | 29.2                  | 40.2            |
|               | MAXIMUM OVERCURRENT PROTECTION (1)       | 40              | 45                    | 60              |
| COMPRESSOR    | TYPE                                     | SCROLL          | SCROLL                | SCROLL          |
|               | RATED LOAD AMPS                          | 17.9            | 19.9                  | 26.4            |
|               | LOCKED ROTOR AMPS                        | 112             | 109                   | 134             |
| CONDENSER     | HORSEPOWER                               | 1/4             | 1/4                   | 1/4             |
| FAN MOTOR     | RPM                                      | 1075            | 1075                  | 1075            |
|               | FULL LOAD AMPS                           | 1.4             | 1.4                   | 1.4             |
|               | LOCKED ROTOR AMPS                        | 2.9             | 2.9                   | 2.9             |
| CONDENSER FAN | BLADE DIAMETER (INCHES) /# OF BLADES     | 22 / 4          | 22 / 4                | 22 / 4          |
| CONDENSER     | FACE AREA - SQ. FT.                      | 16.0            | 16.0                  | 19.5            |
| COIL          | NUMBER OF ROWS                           | 1               | 1                     | 1               |
|               | FINS PER INCH                            | 28              | 28                    | 28              |
| EVAPORATOR    | HORSEPOWER - NO. OF SPEEDS               | 1/2 - 3         | 1/2 - 3               | 3/4 - 3         |
| BLOWER        | FULL LOAD AMPS                           | 2.87            | 2.87                  | 5.8             |
| MOTOR         | LOCKED ROTOR AMPS                        | 4.9             | 4.9                   | NA              |
|               | MOTOR SPEED TAP - COOLING                | LOW             | MEDIUM                | T2              |
|               | RPM                                      | 1075            | 1075                  | 1075            |
| EVAPORATOR    | DIAMETER X WIDTH (INCHES)                | 10 x 8          | 10 x 8                | 11 x 8          |
| BLOWER        | RATED SCFM COOLING                       | 1,410           | 1,585                 | 1,850           |
|               | MAX EXTERNAL STATIC PRESS ("w.c.)        | 0.5             | 0.5                   | 0.5             |
| EVAPORATOR    | FACE AREA - SQ. FT.                      | 6.2             | 6.2                   | 7.0             |
| COIL          | NUMBER OF ROWS                           | 4               | 4                     | 4               |
|               | FINS PER INCH                            | 14              | 14                    | 14              |
| GENERAL       | FILTER SIZE - SQ. FT. *                  | (2) 20 x 20 x 1 | (2) 20 x 20 x 1       | (2) 20 x 25 x 1 |
| INFORMATION   | DRAIN SIZE (INCHES)                      | 3/4"            | 3/4"                  | 3/4"            |
|               | EXPANSION DEVICE                         | ORIFICE (0.072) | ORRIFICE (0.078)      | ORIFICE (0.088) |
|               | REFRIGERANT CHARGE R-410A (Oz.)          | 88              | 80                    | 93              |
|               | POWER SUPPLY CONDUIT KNOCKOUT SIZE (IN.) | 3/4, 1, 1-1/4   | <b>3</b> /4, 1, 1-1/4 | 3/4, 1, 1-1/4   |
|               | LOW VOLTAGE CONDUIT KNOCKOUT SIZE (IN.)  | 1/2             | 1/2                   | 1/2             |
|               | SHIPPING WEIGHT LBS.                     | 370             | 400                   | 400             |
|               | OPERATING WEIGHT LBS.                    | 360             | 390                   | 390             |

<sup>(1)</sup> Maximum Overcurrent Protection Device: **MUST** use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted. Calculated external filter size based on air velocity of 300 ft/min.

### **5MM COILS**

### **GPC1324H41AB**

### **COOLING OPERATION**

# **EXPANDED PERFORMANCE DATA**

MODEL: GPC1324H41A\*

|                             |     |                        | 71      |        | - (    | •       | _      | - (  | ľ     | _     | ٠      | '      | '       | - (    |      | -     | -     | -      | - (    | '       | - (    | ٠    |       | '     |
|-----------------------------|-----|------------------------|---------|--------|--------|---------|--------|------|-------|-------|--------|--------|---------|--------|------|-------|-------|--------|--------|---------|--------|------|-------|-------|
|                             | 115 |                        |         | 21.5   | 1.00   | 21      | 2.21   | 10.0 | 447   | 159   | 21.2   | 1.00   | 23      | 2.20   | 6.6  | 443   | 158   | 20.2   | 1.00   | 25      | 2.16   | 9.8  | 435   | 155   |
|                             | ,   |                        | 63      | 19.7   | 1.00   | 19      | 2.14   | 9.7  | 423   | 146   | 19.4   | 1.00   | 21      | 2.13   | 9.7  | 420   | 145   | 18.4   | 1.00   | 23      | 2.10   | 9.2  | 412   | 142   |
|                             |     |                        | 29      | 19.0   | 1.00   | 18      | 2.10   | 9.2  | 393   | 137   | 18.7   | 1.00   | 20      | 2.09   | 9.2  | 330   | 136   | 17.8   | 1.00   | 22      | 2.05   | 9.3  | 382   | 134   |
|                             |     |                        | 71      |        | -      |         |        |      |       |       |        |        |         | -      |      |       |       |        |        |         |        | -    | -     |       |
|                             | 2   |                        | 67      | 23.3   | 1.00   | 23      | 2.14   | 9.2  | 404   | 154   | 22.9   | 1.00   | 22      | 2.13   | 9.2  | 401   | 153   | 21.8   | 1.00   | 27      | 2.09   | 9.3  | 393   | 150   |
|                             | 105 |                        | ಜ       | 21.2   | 1.00   | 21      | 2.07   | 9.2  | 383   | 141   | 20.9   | 1.00   | 23      | 2.06   | 9.2  | 380   | 140   | 19.9   | 1.00   | 24      | 2.03   | 0.6  | 372   | 137   |
|                             |     |                        | 29      | 20.5   | 1.00   | 20      | 2.03   | 9.0  | 326   | 133   | 20.2   | 1.00   | 22      | 2.02   | 9.0  | 353   | 132   | 19.2   | 1.00   | 23      | 1.99   | 8.9  | 346   | 129   |
|                             |     |                        | 71      |        | 1      |         |        |      | -     |       |        |        |         |        |      |       |       |        |        |         |        | -    |       |       |
|                             |     | 4                      | 67      | 24.5   | 1.00   | 24      | 2.06   | 9.0  | 328   | 147   | 24.1   | 1.00   | 26      | 2.04   | 9.0  | 357   | 146   | 22.9   | 1.00   | 28      | 2.01   | 8.8  | 320   | 143   |
| rature                      | 92  | erature                | 63      | 22.3   | 1.00   | 22      | 1.99   | 8.8  | 340   | 135   | 22.0   | 1.00   | 24      | 1.98   | 8.7  | 338   | 134   | 20.9   | 1.00   | 26      | 1.95   | 9.8  | 331   | 131   |
| Outdoor Ambient Temperature |     | Wet Bulb Temperature   | 29      |        |        |         |        |      |       |       |        |        | 23      | 1.94   |      |       | 126 1 |        |        | 25      |        |      |       |       |
| nbient                      |     | /et Bul                |         | 21.6   | 1.00   | 21      | 1.95   | 8.6  | 316   | 127   | 21.2   | 1.00   |         | 1.9    | 8.5  | 314   | Н     | 20.2   | 1.00   |         | 1.91   | 8.4  | 308   | 123   |
| door A                      |     | door V                 | 71      | - 1    | - 0    | - 1     | - 9    |      |       | - C   | - 2    | - 0    | - ,     | - 9    |      | 3 -   | - 6   | - 2    | - 0    | - (     | 2 -    |      | - 2   |       |
| Out                         | 82  | <b>Entering Indoor</b> | 67      | 9 25.1 | 0 1.00 | 24      | 0 1.96 | 8.5  | 315   | 3 140 | 6 24.7 | 0 1.00 | 27      | 9 1.95 | 8.5  | 7 313 | 7 139 | 4 23.5 | 0 1.00 | 29      | 6 1.92 | 8.3  | 1 307 | 5 136 |
|                             |     | Ente                   | 63      | 1 22.9 | 1.00   | 22      | 3 1.90 | 8.3  | 3 299 | 128   | 3 22.6 | 0 1.00 | 24      | 5 1.89 | 8.2  | 3 297 | 127   | 7 21.4 | 1.00   | 26      | 2 1.86 | 8.1  | ) 291 | , 125 |
|                             |     |                        | 29      | 22.1   | 1.00   | 21      | 1.86   | 8.1  | 278   | 121   | 21.8   | 1.00   | 24      | 1.85   | 8.1  | 276   | 120   | 20.7   | 1.00   | 25      | 1.82   | 7.9  | 270   | 117   |
|                             |     |                        | 71      |        | -      | •       |        | ٠    | •     |       |        |        |         | -      | -    | ٠     | •     | •      | •      | •       | ٠      | -    | -     | •     |
|                             | 75  |                        | 29      | 25.7   | 1.00   | 22      | 1.84   | 7.9  | 27.7  | 135   | 25.3   | 1.00   | 27      | 1.83   | 7.9  | 275   | 134   | 24.1   | 1.00   | 29      | 1.81   | 7.8  | 270   | 131   |
|                             |     |                        | 63      | 23.5   | 1.00   | 23      | 1.79   | 7.7  | 263   | 123   | 23.1   | 1.00   | 25      | 1.78   | 7.7  | 261   | 123   | 22.0   | 1.00   | 27      | 1.75   | 7.6  | 256   | 120   |
|                             |     |                        | 59      | 22.6   | 1.00   | 22      | 1.75   | 7.6  | 244   | 116   | 22.3   | 1.00   | 24      | 1.74   | 7.5  | 242   | 115   | 21.2   | 1.00   | 26      | 1.72   | 7.4  | 237   | 113   |
|                             |     |                        | 71      |        | -      | -       | 1      |      |       | -     |        |        | -       | -      | -    | -     |       |        | -      | -       | -      | •    | -     | •     |
|                             | 65  |                        | 29      | 26.3   | 1.00   | 22      | 1.72   | 7.4  | 247   | 127   | 25.9   | 1.00   | 28      | 1.71   | 7.4  | 245   | 127   | 24.6   | 1.00   | 30      | 1.68   | 7.3  | 241   | 124   |
|                             | 9   |                        | ස       | 24.0   | 1.00   | 23      | 1.67   | 7.2  | 234   | 117   | 23.7   | 1.00   | 26      | 1.66   | 7.2  | 232   | 116   | 22.5   | 1.00   | 28      | 1.63   | 7.1  | 228   | 114   |
|                             |     |                        | 59      | 23.2   | 1.00   | 22      | 1.63   | 7.1  | 217   | 110   | 22.8   | 1.00   | 22      | 1.63   | 0.7  | 216   | 109   | 21.7   | 1.00   | 27      | 1.60   | 6.9  | 212   | 107   |
|                             |     |                        |         | MBh    | S/T    | Delta T | ΚM     | AMPS | HI PR | LOPR  | MBh    | S/T    | Delta T | ΚW     | AMPS | HI PR | LOPR  | MBh    | Z/S    | Delta T | ΚM     | AMPS | HI PR | LOPR  |
|                             |     |                        | Airflow |        |        |         | 920    |      |       |       |        |        |         | 820    |      |       |       |        |        |         | 750    |      |       |       |
|                             |     |                        | IDB*    |        |        |         |        |      |       |       |        |        |         | 20     |      |       |       |        |        |         |        |      |       |       |

|      |      |         |      |      |      |      | _         |      |         |           | •    | •     |      | •    | <i></i> |         | ••   | •    | •     |      | <b>X</b> I                                  |
|------|------|---------|------|------|------|------|-----------|------|---------|-----------|------|-------|------|------|---------|---------|------|------|-------|------|---|
| 23.1 | 1.00 | 22      | 2.30 | 10.4 | 470  | 171  | 22.7      | 1.00 | 25      | 2.29      | 10.4 | 467   | 170  | 21.6 | 1.00    | 26      | 2.25 | 10.2 | 458   | 167  |   |
| 21.5 | 1.00 | 21      | 2.23 | 10.1 | 451  | 161  | 21.2      | 1.00 | 23      | 2.22      | 10.0 | 448   | 160  | 20.1 | 1.00    | 25      | 2.18 | 6.6  | 439   | 157  |   |
| 19.9 | 1.00 | 19      | 2.16 | 8.6  | 427  | 147  | 19.6      | 1.00 | 21      | 2.15      | 9.7  | 424   | 146  | 18.6 | 1.00    | 23      | 2.11 | 9.6  | 416   | 144  |   |
| 19.3 | 1.00 | 19      | 2.12 | 9.6  | 268  | 139  | 19.0      | 1.00 | 21      | 2.10      | 9.5  | 394   | 138  | 18.1 | 1.00    | 22      | 2.07 | 9.4  | 986   | 135  |   |
| 24.9 | 1.00 | 54      | 2.23 | 6.6  | 426  | 166  | 24.5      | 1.00 | 27      | 2.22      | 9.8  | 423   | 165  | 23.3 | 1.00    | 29      | 2.18 | 9.7  | 414   | 161  |   |
| 23.2 | 1.00 | 22      | 2.16 | 9.6  | 408  | 156  | 22.9      | 1.00 | 25      | 2.15      | 9.2  | 405   | 155  | 21.7 | 1.00    | 27      | 2.11 | 9.4  | 397   | 151  |   |
| 21.4 | 1.00 | 21      | 2.09 | 9.3  | 387  | 143  | 21.1      | 1.00 | 23      | 2.08      | 9.3  | 384   | 142  | 20.1 | 1.00    | 25      | 2.05 | 9.1  | 376   | 139  |   |
| 20.8 | 1.00 | 20      | 2.05 | 9.1  | 328  | 134  | 20.5      | 1.00 | 22      | 2.04      | 9.1  | 327   | 133  | 19.5 | 1.00    | 24      | 2.00 | 8.9  | 320   | 130  |   |
| 26.2 | 1.00 | 22      | 2.14 | 9.4  | 378  | 158  | 25.8      | 1.00 | 28      | 2.13      | 9.3  | 376   | 157  | 24.5 | 1.00    | 30      | 2.09 | 9.5  | 368   | 154  |   |
| 24.4 | 1.00 | 24      | 2.07 | 9.1  | 363  | 149  | 24.1      | 1.00 | 26      | 2.06      | 9.0  | 360   | 148  | 22.9 | 1.00    | 28      | 2.03 | 8.9  | 353   | 145  |   |
| 22.6 | 1.00 | 22      | 2.01 | 8.8  | 344  | 136  | 22.2      | 1.00 | 24      | 2.00      | 8.8  | 341   | 135  | 21.1 | 1.00    | 56      | 1.97 | 9.8  | 334   | 132  |   |
| 21.9 | 1.00 | 21      | 1.97 | 9.8  | 319  | 128  | 21.6      | 1.00 | 23      | 1.96      | 9.8  | 317   | 127  | 20.5 | 1.00    | 22      | 1.93 | 8.5  | 311   | 124  | ditions                                     |
| 26.9 | 1.00 | 56      | 2.04 | 8.8  | 332  | 151  | 26.5      | 1.00 | 29      | 2.02      | 8.8  | 330   | 150  | 25.2 | 1.00    | 31      | 1.99 | 8.7  | 323   | 147  | VA) con                                     |
| 25.0 | 1.00 | 24      | 1.97 | 8.6  | 319  | 141  | 24.7      | 1.00 | 27      | 1.96      | 8.5  | 316   | 140  | 23.4 | 1.00    | 29      | 1.93 | 8.4  | 310   | 138  | CCA (T                                      |
| 23.1 | 1.00 | 22      | 1.91 | 8.3  | 302  | 130  | 22.8      | 1.00 | 22      | 1.90      | 8.3  | 300   | 129  | 21.7 | 1.00    | 27      | 1.87 | 8.2  | 294   | 126  | reaisA                                      |
| 22.5 | 1.00 | 22      | 1.87 | 8.2  | 280  | 122  | 22.1      | 1.00 | 24      | 1.86      | 8.1  | 278   | 121  | 21.0 | 1.00    | 26      | 1.83 | 8.0  | 273   | 118  | Shaded area is ACCA (TVA) conditions        |
| 27.5 | 1.00 | 27      | 1.92 | 8.2  | 292  | 145  | 27.1      | 1.00 | 29      | 1.91      | 8.2  | 290   | 144  | 25.8 | 1.00    | 32      | 1.88 | 8.1  | 284   | 141  | NOTE: ST                                    |
| 25.7 | 1.00 | 22      | 1.86 | 8.0  | 280  | 136  | 25.3      | 1.00 | 27      | 1.85      | 7.9  | 278   | 135  | 24.0 | 1.00    | 29      | 1.82 | 7.8  | 273   | 132  | 2   |
| 23.7 | 1.00 | 23      | 1.80 | 7.8  | 265  | 125  | 23.4      | 1.00 | 25      | 1.79      | 7.7  | 263   | 124  | 22.2 | 1.00    | 27      | 1.77 | 9.7  | 258   | 121  |   |
| 23.0 | 1.00 | 22      | 1.77 | 9.7  | 247  | 117  | 22.7      | 1.00 | 25      | 1.76      | 9.7  | 242   | 116  | 21.5 | 1.00    | 26      | 1.73 | 2.7  | 240   | 114  |   |
| 28.2 | 1.00 | 27      | 1.78 | 7.7  | 260  | 137  | 27.8      | 1.00 | 30      | 1.72 1.77 | 7.7  | 259   | 136  | 26.4 | 1.00    | 32      | 1.75 | 9.7  | 253   | 133  | ture  |
| 26.3 | 1.00 | 22      | 1.73 | 2.2  | 250  | 129  | 25.9      | 1.00 | 28      | 1.72      | 7.4  | 248   | 128  | 24.6 | 1.00    | 30      | 1.69 | 7.3  | 243   | 125  | empera                                      |
| 24.3 | 1.00 | 23      | 1.68 | 7.3  | 236  | 118  | 23.2 23.9 | 1.00 | 26      | 1.67      | 72   | 235   | 117  | 22.7 | 1.00    | 28      | 1.65 | 7.1  | 230   | 115  | Bulb T                                      |
| 23.6 | 1.00 | 23      | 1.65 | 7.1  | 220  | 111  | 23.2      | 1.00 | 25      | 1.64      | 7.1  | 218   | 110  | 22.1 | 1.00    | 27      | 1.61 | 0.7  | 214   | 108  | door Dry                                    |
| MBh  | S/T  | Delta T | ΚM   | AMPS | H PR | LOPR | MBh       | S/T  | Delta T | ΚW        | AMPS | HI PR | LOPR | MBh  | S/T     | Delta T | KW   | AMPS | HI PR | LOPR | * IDB: Entering Indoor Dry Bulb Temperature |
|      |      |         | 920  |      |      | -    |           |      |         | 820       | 1    | 1     |      |      |         |         | 750  |      |       |      | * IDB:                                      |
|      |      |         |      |      |      | ,    |           |      |         | 75        |      |       |      |      |         |         |      |      |       |      |   |

High and low pressures are measured at the liquid and suction access fittings. \* IDB: Entering Indoor Dry Bulb Temperature

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### **5MM COILS**

### **GPC1324H41AB**

**COOLING OPERATION** 

EXPANDED PERFORMANCE DATA

|   | L<br>A<br>N  |
|---|--------------|
| Ĺ | ij           |
|   |              |
|   | ىد           |
|   | 24H41A       |
|   | <b>GPC13</b> |
|   | MODEL:       |

|         |         |      |      |      |      |      |      |      |      |      |          | Jutdoor | . Ambie  | int Tem         | Outdoor Ambient Temperature          | _  |      |      |      |      |      |      |      |      |      |
|---------|---------|------|------|------|------|------|------|------|------|------|----------|---------|----------|-----------------|--------------------------------------|--|------|------|------|------|------|------|------|------|------|
|         |         |      | 65   | 2    |      |      | 7    | 5    |      |      | 85       |         |          |                 | 95                                   | 5  |      |      | 105  | 2    |      |      | 115  |      |      |
|         |         |      |      |      |      |      |      |      |      | E    | :ntering | g Indoo | r Wet E  | <b>3ulb Ten</b> | Entering Indoor Wet Bulb Temperature | re   |      |      |      |      |      |      |      |      |      |
| Airflow |         | 29   | 63   | 29   | 71   | 29   | 63   | 29   | 71   | 29   | 63       | 29      | 7.1      | 29              | 63                                   | 67   | 71   | 29   | ස    | 29   | 71   | 29   | 63   | 29   | 71   |
| ı       | MBh     | 24.0 | 24.5 | 26.2 | 28.0 | 23.4 | 23.9 | 25.6 | 27.3 | 22.9 | 23.4     | 25.0    | 26.7     | 22.3            | 22.8                                 | 24.4                                       | 26.0 | 21.2 | 21.7 | 23.1 | 24.7 | 19.6 | 20.1 | 21.4 | 22.9 |
|         | S√      | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00     | 1.00    | 1.00     | 1.00            | 1.00                                 | 1.00                                       | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
|         | Delta T | 23   | 24   | 25   | 27   | 23   | 23   | 25   | 56   | 22   | 23       | 24      | 26       | 22              | 22                                   | 24   | 25   | 21   | 21   | 22   | 24   | 19   | 19   | 21   | 22   |
|         | KW      | 1.66 | 1.69 | 1.74 | 1.80 | 1.78 | 1.82 | 1.87 | 1.93 | 1.89 | 1.93     | 1.99    | 2.05     | 1.98            | 2.03                                 | 2.09                                       | 2.16 | 2.06 | 2.11 | 2.18 | 2.25 | 2.13 | 2.18 | 2.25 | 2.32 |
|         | AMPS    | 7.2  | 7.3  | 7.5  | 7.8  | 7.7  | 7.8  | 8.0  | 8.3  | 8.2  | 8.4      | 8.6     | 8.9      | 8.7             | 8.9                                  | 9.5  | 9.2  | 9.2  | 9.4  | 9.7  | 10.0 | 9.7  | 6.6  | 10.2 | 10.5 |
|         | HI PR   | 222  | 239  | 252  | 263  | 249  | 268  | 283  | 296  | 283  | 305      | 322     | 336      | 323             | 347                                  | 367  | 382  | 363  | 391  | 412  | 430  | 401  | 431  | 456  | 475  |
|         | LOPR    | 112  | 119  | 130  | 139  | 118  | 126  | 137  | 146  | 123  | 131      | 143     | 152      | 129             | 137                                  | 150  | 160  | 135  | 144  | 157  | 167  | 140  | 149  | 163  | 173  |
|         | MBh     | 23.6 | 24.1 | 25.8 | 27.6 | 23.1 | 23.6 | 25.2 | 26.9 | 22.5 | 23.0     | 24.6    | 26.3     | 22.0            | 22.5                                 | 24.0                                       | 25.7 | 20.9 | 21.3 | 22.8 | 24.4 | 19.3 | 19.8 | 21.1 | 22.6 |
|         | SY⊥     | 1.00 | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00     | 1.00    | 1.00     | 1.00            | 1.00                                 | 1.00                                       | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
|         | Delta T | 56   | 56   | 28   | 30   | 22   | 56   | 27   | 83   | 24   | 25       | 27      | 28       | 24              | 24                                   | 26   | 28   | 23   | ಜ    | 22   | 56   | 21   | 21   | 23   | 24   |
| 820     | ΚM      | 1.65 | 1.68 | 1.73 | 1.79 | 1.77 | 1.81 | 1.86 | 1.92 | 1.88 | 1.92     | 1.98    | 2.04     | 1.97            | 2.01                                 | 2.08                                       | 2.15 | 2.05 | 2.10 | 2.16 | 2.23 | 2.12 | 2.17 | 2.24 | 2.31 |
|         | AMPS    | 7.2  | 7.3  | 7.5  | 7.7  | 9.7  | 7.8  | 8.0  | 8.3  | 8.2  | 8.4      | 8.6     | 8.9      | 8.7             | 8.8                                  | 9.1  | 9.4  | 9.1  | 9.3  | 9.6  | 6.6  | 9.6  | 9.8  | 10.1 | 10.4 |
|         | HI PR   | 220  | 237  | 250  | 261  | 247  | 266  | 281  | 293  | 281  | 303      | 320     | 333      | 320             | 345                                  | 364  | 380  | 360  | 388  | 410  | 427  | 398  | 428  | 452  | 472  |
|         | LOPR    | 111  | 118  | 129  | 138  | 118  | 125  | 136  | 145  | 122  | 130      | 142     | 151      | 128             | 136                                  | 149  | 159  | 134  | 143  | 156  | 166  | 139  | 148  | 162  | 172  |
|         | MBh     | 22.5 | 22.9 | 24.5 | 26.2 | 21.9 | 22.4 | 23.9 | 25.6 | 21.4 | 21.9     | 23.4    | 25.0     | 20.9            | 21.3                                 | 22.8                                       | 24.4 | 19.8 | 20.3 | 21.7 | 23.2 | 18.4 | 18.8 | 20.1 | 21.4 |
|         | S∕T     | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00     | 1.00    | 1.00     | 1.00            | 1.00                                 | 1.00                                       | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
|         | Delta T | 28   | 28   | 30   | 32   | 22   | 27   | 59   | 31   | 56   | 27       | 58      | 31       | 56              | 56                                   | 28   | 30   | 24   | 22   | 27   | 28   | 23   | 23   | 25   | 56   |
| 720     | KW      | 1.63 | 1.66 | 1.71 | 1.76 | 1.74 | 1.78 | 1.83 | 1.89 | 1.85 | 1.89     | 1.95    | 2.01     | 1.94            | 1.98                                 | 2.04                                       | 2.11 | 2.02 | 2.06 | 2.13 | 2.20 | 2.09 | 2.13 | 2.20 | 2.27 |
|         | AMPS    | 7.0  | 7.2  | 7.4  | 7.6  | 7.5  | 7.7  | 7.9  | 8.1  | 8.1  | 8.2      | 8.5     | 8.7      | 8.5             | 8.7                                  | 9.0  | 9.2  | 9.0  | 9.2  | 9.5  | 9.8  | 9.2  | 9.7  | 6.6  | 10.3 |
|         | HI PR   | 216  | 232  | 245  | 256  | 242  | 261  | 275  | 287  | 276  | 297      | 313     | 327      | 314             | 338                                  | 357  | 372  | 353  | 380  | 401  | 419  | 330  | 420  | 443  | 462  |
|         | LOPR    | 109  | 116  | 127  | 135  | 115  | 123  | 134  | 142  | 120  | 127      | 139     | 148      | 126             | 134                                  | 146  | 156  | 132  | 140  | 153  | 183  | 136  | 145  | 158  | 169  |
| ĺ       |         |      |      |      |      |      |      |      |      |      | NOTE:    |         | d area n | eflects A       | VRI rating                           | Shaded area reflects ARI rating conditions | SU   |      |      |      |      |      |      |      |      |

|         |  |         |                |           |      |      |         |           |        |   | NOI E  | जावपद्धा वास्त्र |      | iellects 7 | יאו ומוווט   | ARI TALLITY COLIDITIONS |          |          |         |           |         |           |          |        | ı       |
|---------|--|---------|----------------|-----------|------|------|---------|-----------|--------|---|--------|------------------|------|------------|--------------|-------------------------|----------|----------|---------|-----------|---------|-----------|----------|--------|---------|
|         | MBh  | 24.4    | 24.9           | 26.1      | 27.8 | 23.8 | 24.3    | 25.5      | 27.2   | 23.3                                      | 23.7   | 24.8             | 26.5 | 22.7       | 23.1         | 24.2                    | 25.9 2   | 21.6 2   | 22.0 23 | 23.0 24.6 | .6 20.0 | .0 20.4   | .4 21.3  | 3 22.8 | ø       |
|         | S/T  | 1.00    | 1.00           | 1.00      | 1.00 | 1.00 | 1.00    | 1.00      | 1.00   | 1.00                                      | 1.00   | 1.00             | 1.00 | 1.00       | 1.00         | 1.00                    | 1.00     | .00      | 1.00 1. | 1.00 1.00 | _       | 1.00 1.00 | 00.1 00  | 00.1   | 0       |
|         | Delta T                                      | 24      | 24             | 22        | 27   | 23   | 24      | 25        | 26     | 23  | 23     | 24               | 56   | 22         | 22           | 23                      | 25       | 21       | 21 2    | 22 2      | 24 19   | 19 2      | 20 21    | 22     |         |
| 920     | KW   | 1.67    | 1.71           | 1.76      | 1.81 | 1.79 | 1.83    | 1.89      | 1.95   | 1.90                                      | 1.94   | 2.00             | 2.07 | 2.00       | 2.04         | 2.11                    | 2.17 2   | 2.08 2   | 2.13 2. | 2.19 2.27 | 27 2.15 | 15 2.20   | 20 2.27  | 7 2.34 | 4       |
|         | AMPS   | 7.2     | 7.4            | 9.7       | 7.8  | 7.7  | 7.9     | 8.1       | 8.4    | 8.3                                       | 8.5    | 8.7              | 0.6  | 8.8        | 0.6          | 9.2                     | 9.5      | 9.3      | 9.5     | 9.7 10.1  | 1.1     | 7 10.0    | .0 10.3  | 3 10.6 | ဖ       |
|         | H PR   | 224     | 241            | 255       | 266  | 252  | 27.1    | 286       | 298    | 286                                       | 308    | 325              | 339  | 326        | 351          | 370                     | 386      | 367<br>3 | 394 4   | 416 434   | 34 405  | 5 436     | 16 460   | ) 480  | 0       |
|         | LOPR   | 113     | 120            | 131       | 140  | 120  | 127     | 139       | 148    | 124                                       | 132    | 144              | 154  | 130        | 139          | 152                     | 161      | 137 1    | 145 1   | 159 16    | 69 141  |           | 150 164  | 175    | 10      |
|         | MBh  | 24.0    | 24.5           | 25.7      | 27.4 | 23.5 | 23.9    | 25.1      | 26.8   | 22.9                                      | 23.4   | 24.5             | 26.1 | 22.4       | 22.8         | 23.9                    | 25.5     | 21.2     | 21.7 2  | 22.7 242  | Н       | 19.7 20.1 | .1 21.0  | 0 22.4 | 4       |
|         | S/T  | 1.00    | 1.00 1.00 1.00 | 1.00      | 1.00 | 1.00 | 1.00    | 1.00      | 1.00   | 1.00                                      | 1.00   | 1.00             | 1.00 | 1.00       | 1.00         | 1.00                    | 1.00   1 | 1.00 1   | 1.00 1. | 1.00 1.00 | Н       | 1.00 1.00 | 00.1     | 00.1   | 0       |
|         | Delta T                                      | 56      | 27             | 28        | 30   | 25   | 26      | 27        | 29     | 25  | 25     | 26               | 28   | 24         | 25           | 26                      | 28       | 23       | 23 23   | 25 2      | 26 21   | 1 22      | 2 23     | 24     |         |
| 820     | ΚW   | 1.66    | 1.70           | 1.75      | 1.80 | 1.79 | 1.82    | 1.88      | 1.92   | 1.89                                      | 1.93   | 1.99             | 2.06 | 1.99       | 2.03         | 2.09                    | 2.16   2 | 2.07 2   | 2.11 2. | 2.18 2.25 |         | 2.14 2.19 | 19 2.26  | 5 2.33 | က       |
|         | AMPS   | 7.2     | 7.4            | 9.2       | 7.8  | 7.7  | 7.8     | 8.1       | 8.3    | 8.3                                       | 8.4    | 8.7              | 8.9  | 8.7        | 8.9          | 9.5                     | 9.5      | 9.2      | 9.4     | 9.7 10    | 10.0    | 7 9.9     | 9 10.2   | 2 10.5 | رم<br>م |
|         | H PR   | 223     | 240            | 253       | 264  | 250  | 569     | 284       | 296    | 284                                       | 306    | 323              | 337  | 324        | 348          | 368                     | 383      | 364      | 392 4   | 414 431   | 31 402  | 12 433    | 3 457    | 7 477  | _       |
|         | LOPR   | 112     | 120            | 130       | 139  | 119  | 126     | 138       | 147    | 123                                       | 131    | 143              | 153  | 130        | 138          | 150                     | 160      | 136 1    | 144 1   | 158 16    | 14      | 140 14    | 149 163  | 3 174  | 4       |
|         | MBh  | 22.8    | 23.3           | 24.4      | 26.0 | 22.3 | 22.7    | 23.8      | 25.4   | 21.8                                      | 22.2   | 23.3             | 24.8 | 21.2       | 21.7         | 22.7                    | 24.2     | 20.2     | 20.6 2  | 21.6 23.0 | 18.7    | _         | 9.1 20.0 | 21.3   | က       |
|         | SYT  | 1.00    | 1.00           | 1.00      | 1.00 | 1.00 | 1.00    | 1.00      | 1.00   | 1.00                                      | 1.00   | 1.00             | 1.00 | 1.00       | 1.00         | 1.00                    | 1.00.1   | .00      | 1.00 1. | 1.00 1.00 | _       | 1.00 1.00 | 00.1 00  | 00.1   | 0       |
|         | Delta T                                      | 28      | 29             | 30        | 32   | 27   | 28      | 59        | 31     | 27  | 27     | 29               | 30   | 26         | 27           | 28                      | 30       | 25       | 25 2    | 26 2      | 28 2:   | 23 2:     | 23 24    | 26     |         |
| 750     | ΚW   | 1.64    | 1.67           | 1.72      | 1.77 | 1.76 | 1.79    | 1.85      | 1.91   | 1.86                                      | 1.90   | 1.96             | 2.02 | 1.96       | 2.00         | 2.06                    | 2.13 2   | .04 2    | 2.08 2. | 2.15 2.22 | 22 2.1  | 10 2.15   | 15 2.22  | 2 2.29 | 6       |
|         | AMPS   | 7.1     | 7.2            | 7.4       | 7.7  | 9.7  | 7.7     | 6.7       | 8.2    | 8.1                                       | 8.3    | 8.5              | 8.8  | 9.8        | 8.8          | 9.0                     | 9.3      | 9.1      | 9.3     | 9.5       | 9.8     | 5 9.7     | 7 10.0   | 10.4   | 4       |
|         | HI PR  | 218     | 235            | 248       | 259  | 245  | 263     | 278       | 290    | 278                                       | 300    | 316              | 330  | 317        | 341          | 360                     | 376      | 357 3    | 384 4   | 405 423   | 23 394  | 424       | 448      | 3 467  | 7       |
|         | LOPR   | 110     | 117            | 128       | 136  | 116  | 124     | 135       | 144    | 121                                       | 129    | 140              | 150  | 127        | 135          | 147                     | . 157    | 133 1    | 142 1   | 55 16     | 65 13   | 138 14    | 146 160  | 170    | 0       |
| NOTE: § | NOTE: Shaded areas is AHRI Rating Conditions | is AHRI | Rating         | Condition | Suc  |      | IDB: Er | tering In | door D | IDB: Entering Indoor Dry Bulb Temperature | Temper | ature            | Z    | KW = Tot   | Total system | power                   |          |          |         |           |         |           |          |        |         |

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NOTE: Shaded areas is AHRI Rating Conditions IDB: Entering Indoor Dry Bulb Temperature K High and low pressures are measured at the liquid and suction access fittings.

AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

### **5MM COILS**

### **GPC1330H41AB**

### **COOLING OPERATION**

# **EXPANDED PERFORMANCE DATA**

**MODEL: GPC1330H41A\*** 

| Title final Inches Met Builb Temperature           71         59         63         67         71         59         63         67         71         59         67         71         59         63         67         71         59         67         71         59         63         67         71         59         63         67         71         59         63         67         71         59         67         71         59         63         67         71         59         63         67         71         59         67         71  | ¥4                                      |
|--|---|
| 59         63         67         71         59         63         67         71         59         67         71         59         67         71         59         67         71         59         67         71         59         67         71         59         67         71         59         67         71         59         67         71         59         67         71         59         67         71         67         71         70         70         20<   | 6,9                                     |
| 56         67         71         59         63         67         71         59         63         67         71         59         63         67         71         59         67         71         59         67         71         59         67         71         67         67         71<   |   |
| 265         27.5         30.1         -         26.9         26.4         -         24.6         25.5         27.9         -         22.8         23.6           0.79         0.66         0.46         -         0.81         0.68         0.47         -         0.84         0.70         0.49         -         0.25         27.8         27.8         27.9         -         0.25         0.71            | Airflow 59 63 67 71 59 63 67            |
| 0.79         0.66         0.46         -         0.81         0.68         0.47         -         0.84         0.70         0.49         -         0.85         0.71           17         15         11         1         11         1         15         11         1         11            | MBh 27.8 28.8 31.6 - 27.2 28.2 30.9     |
| 17         15         11         1         11         1         14         11         1         14         11         1         15         11         1         14         11         1         14         11         1         14         11         1         14         11            | S/T 0.74 0.62 0.43 - 0.77 0.64 0.44     |
| 2.01         2.05         2.12         2.16         2.24         -         2.21         2.26         2.34         -         2.29         2.34           9.1         9.3         9.5         -         9.6         9.8         10.1         -         10.2         10.4         10.7         -         10.7         10.9  | Delta                                   |
| 9.1         9.3         9.5         9.8         10.1         -         10.2         10.4         10.7         -         10.7         10.9         10.9         10.9         10.9         10.7         10.9         10.7         10.9         10.7         10.9         10.7         10.7         10.9         10.7         10.9         10.7         10.8         10.8         10.9         10.8         10.8         10.9         10.8         10.8         10.8         10.8         10.8         10.8         10.8         10.8         10.8         10.8         10.8         10.8         10.8         10.8         10.8         10.8         10.8         10.8                                     | 1145 KW 1.75 1.78 1.84 - 1.89 1.93 1.99 |
| 299         322         340         -         341         367         387         -         436         -         423         456         -         436         -         423         456         -         436         -         423         456         -         436         -         423         456         -         459         151         -         423         456         -         423         456         -         436         145         -         423         456         -         423         456         -         423         456         -         423         456         -         423         456         -         423         456         -         423         456         -         423         456         -         423         456         -         423         456         -         423         456         -         520         -         423         456         -         423         456         -         520         -         423         456         -         423         456         -         423         456         -         423         456         -         423         426         -         423         426  | AMPS 7.9 8.1 8.3 - 8.5 8.6 8.9          |
| 118         126         138         -         124         132         145         -         130         139         151         -         135         145         -         145         -         130         139         151         -         135         145         -         145         -         145         -         145         -         147         15         17         15         17  | HI PR   234 252 266 -   263 283 299     |
| 25.8         26.7         29.3         -         25.1         26.1         26.1         26.5         -         26.5         26.1         26.5         -         26.5         26.7         27.1         -         22.1         22.9         27.2         27.1         -         22.1         22.1         22.1         22.1         22.1         22.1         22.1         22.1         22.1         22.1         22.1         22.1         22.1         22.1         22.1         22.1         22.1         22.1         22.2         22.2         22.2         22.9         22.2         22.9         22.9         22.2         22.9         22.9         22.2         22.9         22.9         22.2         22.9         22.9         22.2         22.9         22.9         22.2         22.9         22.9         22.2         22.9         22.9         22.2         22.9         22.9         22.7         22.2         22.9         22.9         22.7         22.2         22.9         22.9         22.7         22.2         22.9         22.9         40.8         431         41.9         451           117         125         136         2.7         2.1         2.2         2.2         2.2         2.2 </td <td>LO PR   108 115 125 -   114 121 132</td> | LO PR   108 115 125 -   114 121 132     |
| 0.75         0.63         0.43         -         0.78         0.65         0.45         -         0.80         0.67         0.47         -         0.81         0.68         0.69         0.67         0.47         -         0.81         0.89         0.67         0.47         -         0.81         0.68         0.88         0.68         0.67         0.74         -         0.81         0.81         0.81         0.81         0.81         0.81         0.81         0.82         0.82         0.82         0.82         0.82         0.82         0.82         0.82         0.82         0.83   | MBh 27.0 28.0 30.7 - 26.4 27.4 30.0     |
| 17         15         11         -         18         15         12         -         17         15         11         -         16         14         15         11         -         16         14         16         11         -         16         14         16         11         -         17         15         11         -         16         14         -         16         14         -         14         -         14         -         14         -         16         17         15         10         -         10   | S/T 0.71 0.59 0.41 - 0.73 0.61 0.42     |
| 1.99         2.04         2.10        1         2.15         2.22        2         2.4         2.24         2.32        2         2.3         2.3         2.3         2.3         2.2        2         2.4         2.22        2         2.4         2.32        2         2.4         2.22        2         2.4         2.22        2         2.4         2.22        2         2.4         2.22        2         2.4         2.22        2         2.2         2.2         2.2         2.2         2.2         2.2         2.2         2.2         2.2         2.2         2.2         2.2         2.2         2.2         2.2         2.2         3.2   | Delta                                   |
| 9.0         9.2         9.5         9.8         10.0         -         10.1         10.3         10.6         -         10.6         10.8         10.9         10.6         10.8         10.6                                     | 1020 KW 1.73 1.77 1.83 - 1.87 1.91 1.97 |
| 296         319         336         -         337         363         383         -         179         408         431         -         494         451         -         494         451         -         494         451         -         494         451         -         494         451         -         494         451         -         494         451         -         494         451         451         -         494         451         451         -         134         452         -         134         452         -         134         452         -         134         452         -         134         452         -         134         452         -         134         452         -         134         452         -         134         452         -         134         452         -         134         452         -         145         145         -         145         145         -         144         145         -         144         145         -         144         445         -         145         -         145         -         141         445         -         141         -         145         -  | AMPS 7.9 8.0 8.2 - 8.4 8.6 8.8          |
| 117         125         136         -         123         131         143         -         129         137         150         -         134         142           245         25.4         27.8         2.0         2.3         2.7         2.7         2.5         2.5         2.5         2.0  | HI PR   232 250 264 - 260 280 296       |
| 45         25.4         27.8         -         23.9         24.7         27.1         -         22.7         23.5         25.8         -         21.0         21.8         -         21.0         21.8         -         21.0         21.8         -         21.0         21.8         -         21.0  |   |
| 0.72         0.60         0.42         -         0.74         0.62         0.43         -         0.77         0.64         0.45         -         0.78         0.65         0.77         0.64         0.45         -         0.78         0.65         0.79         0.66         0.77         0.64         0.45         -         0.79         0.69         0.79         0.69         0.79         0.79         0.78         -         0.79   | MBh 25.7 26.6 29.1 - 25.1 26.0 28.5     |
| 18         16         12         -         18         16         12         -         18         15         12         -         17         14           1.36         2.00         2.07         -         2.06         2.11         2.18         -         2.15         2.20         2.28         -         2.23         2.28           8.9         9.1         9.4         9.6         9.9         -         9.9         10.1         10.4         -         10.4         10.7           2.90         312         330         3.56         3.76         -         372         400         4.22         -         411         442           115         122         133         -         121         128         140         -         127         135         147         -         131         139  | S/T 0.68 0.57 0.39 - 0.70 0.59 0.41     |
| 1.96     2.00     2.07     -     2.06     2.11     2.18     -     2.15     2.20     2.28     -     2.23     2.28       8.9     9.1     9.3     -     9.4     9.6     9.9     -     9.9     10.1     10.4     -     10.4     10.7       2.90     312     330     3.56     376     -     372     400     422     -     411     442       1.15     122     133     -     121     128     140     -     127     135     147     -     131     139  | DeltaT 18 15 12 - 18 16 12              |
| 8.9         9.1         9.3         -         9.4         9.6         9.9         -         9.9         10.1         10.4         -         10.4         10.7           2.90         312         330         -         330         356         376         -         372         400         422         -         411         442           115         122         133         -         121         128         140         -         127         135         147         -         131         139   | 900 KW 1.70 1.74 1.80 - 1.84 1.88 1.94  |
| 290         312         330         -         330         366         376         -         372         400         422         -         411         442           115         122         133         -         121         128         140         -         127         135         147         -         131         139  | AMPS 7.7 7.9 8.1 - 8.3 8.4 8.7          |
| 115 122 133 - 121 128 140 - 127 135 147 - 131 139  | HI PR 227 245 258 - 255 275 290         |
|  | LOPR 105 111 122 - 111 118 128          |

| 7      | Ŋ    |         | ည    | 7    | _   | 6     | 6    | o    | _       | Σ.   | 9    | 2     | 7    | 9      | ထ္တ  |         | بو     | 4    | 2     | 4    |
|--------|------|---------|------|------|-----|-------|------|------|---------|------|------|-------|------|--------|------|---------|--------|------|-------|------|
| 3 27.7 | 0.42 | 6       | 2.53 | 11.7 | 202 | 169   | 26.9 | 0.40 | 10      | 2.51 | 11.6 | 505   | 167  | 3 25.6 | 0.38 | 10      | 3 2.46 | 11.4 | 492   | 164  |
| 25.8   | 0.65 | 14      | 2.44 | 11.3 | 486 | 158   | 25.1 | 0.62 | 14      | 2.42 | 11.3 | 481   | 157  | 23.8   | 09:0 | 15      | 2.38   | 11.1 | 472   | 154  |
| 23.9   | 0.87 | 17      | 2.36 | 11.0 | 460 | 145   | 23.2 | 0.83 | 17      | 2.34 | 10.9 | 456   | 144  | 22.0   | 0.79 | 18      | 2.30   | 10.7 | 447   | 141  |
| 23.2   | 0.97 | 18      | 2.31 | 10.8 | 428 | 136   | 22.5 | 0.92 | 19      | 2.29 | 10.7 | 423   | 135  | 21.4   | 0.88 | 19      | 2.25   | 10.5 | 415   | 132  |
| 29.9   | 0.42 | 10      | 2.44 | 11.1 | 459 | 163   | 29.0 | 0.40 | 10      | 2.42 | 11.0 | 454   | 161  | 27.6   | 0.38 | 11      | 2.38   | 10.9 | 445   | 158  |
| 27.9   | 0.65 | 15      | 2.36 | 10.8 | 440 | 153   | 27.1 | 0.62 | 15      | 2.34 | 10.7 | 435   | 151  | 25.7   | 0.59 | 16      | 2.30   | 10.5 | 427   | 148  |
| 25.8   | 0.86 | 18      | 2.28 | 10.5 | 417 | 140   | 25.0 | 0.82 | 18      | 2.26 | 10.4 | 412   | 139  | 23.8   | 0.78 | 19      | 2.22   | 10.2 | 404   | 136  |
| 25.0   | 96.0 | 19      | 2.23 | 10.2 | 387 | 132   | 24.3 | 0.91 | 20      | 2.21 | 10.2 | 383   | 130  | 23.1   | 0.88 | 21      | 2.17   | 10.0 | 376   | 128  |
| 31.5   | 0.40 | 10      | 2.34 | 10.5 | 408 | 155   | 30.6 | 0.38 | 11      | 2.32 | 10.5 | 404   | 154  | 29.0   | 0.37 | 11      | 2.28   | 10.3 | 396   | 151  |
| 29.3   | 0.63 | 15      | 2.26 | 10.2 | 391 | 146   | 28.5 | 09.0 | 15      | 2.24 | 10.1 | 387   | 145  | 27.1   | 0.57 | 16      | 2.20   | 10.0 | 379   | 142  |
| 27.1   | 0.83 | 18      | 2.18 | 6.6  | 370 | 134   | 26.3 | 0.79 | 19      | 2.17 | 9.8  | 367   | 132  | 25.0   | 0.76 | 19      | 2.13   | 2.6  | 329   | 130  |
| 26.3   | 0.92 | 20      | 2.14 | 26   | 344 | 126   | 25.6 | 0.88 | 20      | 2.12 | 9.6  | 341   | 124  | 24.3   | 0.84 | 71      | 2.08   | 98   | 334   | 122  |
| 32.3   | 0.39 | 10      | 2.21 | 6.6  | 358 | 148   | 31.3 | 0.37 | 11      | 2.20 | 6.6  | 354   | 147  | 29.8   | 0.36 | 11      | 2.16   | 2.6  | 347   | 144  |
| 30.1   | 0.61 | 15      | 2.14 | 9.6  | 343 | 139   | 29.2 | 0.58 | 15      | 2.12 | 9.2  | 340   | 138  | 27.7   | 0.55 | 16      | 2.09   | 9.4  | 333   | 135  |
| 27.8   | 0.80 | 18      | 2.07 | 9.4  | 325 | 127   | 27.0 | 0.76 | 19      | 2.05 | 9.3  | 322   | 126  | 25.6   | 0.73 | 19      | 2.02   | 9.1  | 315   | 124  |
| 27.0   | 0.90 | 19      | 2.03 | 9.5  | 302 | 120   | 262  | 0.85 | 20      | 2.01 | 9.1  | 299   | 118  | 24.9   | 0.82 | 21      | 1.97   | 8.9  | 293   | 116  |
| 33.1   | 0.38 | 10      | 2.08 | 9.5  | 315 | 142   | 32.1 | 0.36 | 10      | 2.06 | 9.5  | 312   | 141  | 30.5   | 0.35 | 11      | 2.02   | 9.0  | 305   | 138  |
| 30.8   | 0.59 | 15      | 2.01 | 0.6  | 302 | 134   | 29.9 | 0.56 | 15      | 1.99 | 8.9  | 299   | 132  | 28.4   | 0.54 | 16      | 1.96   | 8.7  | 293   | 130  |
| 28.5   | 0.78 | 18      | 1.94 | 8.7  | 286 | 122   | 27.6 | 0.74 | 19      | 1.93 | 8.6  | 283   | 121  | 26.3   | 0.71 | 19      | 1.90   | 8.5  | 277   | 119  |
| 27.6   | 0.87 | 19      | 1.90 | 8.5  | 266 | 115   | 26.8 | 0.83 | 20      | 1.89 | 8.5  | 263   | 114  | 25.5   | 0.80 | 21      | 1.85   | 8.3  | 258   | 112  |
| 33.9   | 0.37 | 10      | 1.92 | 8.6  | 281 | 135   | 32.9 | 0.35 | 10      | 1.90 | 8.6  | 278   | 133  | 31.2   | 0.34 | 11      | 1.87   | 8.4  | 272   | 131  |
| 31.5   | 0.57 | 14      | 1.86 | 8.4  | 569 | 127   | 30.6 | 0.54 | 15      | 1.84 | 8.3  | 266   | 125  | 29.1   | 0.52 | 15      | 1.81   | 8.2  | 261   | 123  |
| 29.1   | 0.75 | 18      | 1.80 | 8.1  | 255 | 116   | 28.3 | 0.72 | 18      | 1.79 | 8.1  | 252   | 115  | 26.9   | 69.0 | 19      | 1.76   | 8.0  | 247   | 112  |
| 28.3   | 0.84 | 19      | 1.76 | 8.0  | 237 | 109   | 27.5 | 0.80 | 20      | 1.75 | 7.9  | 234   | 108  | 26.1   | 0.77 | 21      | 1.72   | 7.8  | 230   | 106  |
| MBh    | S/T  | Delta T | KW   | AMPS | HR  | LO PR | MBh  | S/T  | Delta T | ΚM   | AMPS | HI PR | LOPR | MBh    | S/T  | Delta T | ΚM     | AMPS | HI PR | LOPR |
|        |      |         | 1145 |      |     |       |      |      |         | 1020 |      |       |      |        |      |         | 006    |      |       |      |
|        |      |         |      |      |     |       |      |      |         | 72   |      |       |      |        |      |         |        |      |       |      |

NOTE: Shaded area is ACCA (TVA) conditions \* IDB: Entering Indoor Dry Bulb Temperature High and low pressures are measured at the liquid and suction access fittings.

### 5MM COILS

### **GPC1330H41AB**

**COOLING OPERATION** 

**EXPANDED PERFORMANCE DATA** 

| _                             |          |                                      |            |        |        |         |        |      |       |       |        |        |         |        |      |       |       |        |        |         |        |       |       |       |
|-------------------------------|----------|--------------------------------------|------------|--------|--------|---------|--------|------|-------|-------|--------|--------|---------|--------|------|-------|-------|--------|--------|---------|--------|-------|-------|-------|
|                               |          |                                      | 71         | 27.5   | 0.61   | 13      | 2.55   | 11.8 | 512   | 170   | 26.7   | 0.58   | 14      | 2.53   | 11.7 | 202   | 169   | 25.4   | 0.55   | 14      | 2.48   | 11.5  | 497   | 165   |
|                               | 7.       | ,                                    | <i>L</i> 9 | 25.7   | 0.81   | 17      | 2.46   | 11.4 | 491   | 160   | 25.0   | 0.77   | 17      | 2.44   | 11.3 | 486   | 158   | 23.7   | 0.74   | 18      | 2.40   | 11.2  | 476   | 155   |
|                               | 115      |                                      | 63         | 24.1   | 1.00   | 19      | 2.38   | 11.1 | 465   | 146   | 23.4   | 0.95   | 20      | 2.36   | 11.0 | 460   | 145   | 22.2   | 0.91   | 21      | 2.32   | 10.8  | 451   | 142   |
|                               |          |                                      | 29         | 23.6   | 1.00   | 19      | 2.33   | 10.9 | 432   | 138   | 22.9   | 1.00   | 21      | 2.31   | 10.8 | 428   | 136   | 21.7   | 0.97   | 22      | 2.27   | 10.6  | 419   | 134   |
|                               |          |                                      | 71         | 29.7   | 09.0   | 14      | 2.46   | 11.2 | 463   | 165   | 28.8   | 0.57   | 15      | 2.44   | 11.1 | 459   | 163   | 27.4   | 0.55   | 15      | 2.40   | 11.0  | 450   | 160   |
|                               | ري       |                                      | <b>29</b>  | 27.8   | 0.80   | 18      | 2.38   | 10.9 | 444   | 155   | 27.0   | 0.77   | 19      | 2.36   | 10.8 | 440   | 153   | 25.6   | 0.73   | 19      | 2.32   | 10.6  | 431   | 150   |
|                               | 105      | :                                    | ೞ          | 26.0   | 1.00   | 21      | 2.30   | 10.6 | 421   | 142   | 25.3   | 0.94   | 21      | 2.28   | 10.5 | 417   | 140   | 24.0   | 0.90   | 22      | 2.24   | 10.3  | 408   | 137   |
|                               |          |                                      | 29         | 25.5   | 1.00   | 20      | 2.25   | 10.3 | 391   | 133   | 24.7   | 1.00   | 22      | 2.23   | 10.2 | 387   | 132   | 23.5   | 96.0   | 23      | 2.19   | 10.1  | 379   | 129   |
|                               |          |                                      | 71         | 31.3   | 0.58   | 15      | 2.36   | 10.6 | 412   | 157   | 30.4   | 0.55   | 15      | 2.34   | 10.5 | 408   | 155   | 28.8   | 0.53   | 16      | 2.30   | 10.4  | 400   | 152   |
|                               |          |                                      | 29         | 29.3   | 0.77   | 18      | 2.28   | 10.3 | 395   | 147   | 28.4   | 0.74   | 19      | 2.26   | 10.2 | 391   | 146   | 27.0   | 0.71   | 19      | 2.22   | 10.0  | 383   | 143   |
| 1                             | 95<br>95 | rature                               | 63         | 27.4   |        | 21      | 2.20   | 10.0 | 374   | 135   | 26.6   |        | 22      | 2.18   | 6.6  | 370   | 134   | 25.3   |        | 22      | 2.15   | 9.8   | 363   | 131   |
| On the second Transfer of the | 5        | Entering Indoor Wet Bulb Temperature | <u> </u>   |        | 0.95   |         |        |      |       |       |        | 7 0.91 |         |        |      |       |       |        | 3 0.87 |         |        |       |       |       |
| - 40014                       |          | et Bulb                              | 29         | 1 26.8 | 0.1    | 2       | 3 2.15 | 9.8  | 2 348 | 127   | 1 26.0 | 3 0.97 | 23      | 1 2.14 | 26 ( | 344   | 3 126 | 6 24.7 | 1 0.93 | 23      | 8 2.10 | 6 9.5 | 1 337 | 5 123 |
| 100                           | 5        | door W                               | 71         | 32.1   | 5 0.56 | 14      | 5 2.23 | 10.0 | 362   | 150   | 1 31.1 | 1 0.53 | 15      | 4 2.21 | 6.6  | 358   | 148   | 7 29.6 | 3 0.51 | 15      | 0 2.18 | 9.6   | 351   | 3 145 |
| 3                             | 2        | ring In                              | 29         | 30.0   | 2 0.75 | 18      | 9 2.16 | 9.7  | 347   | 140   | 2 29.1 | 3 0.71 | 19      | 7 2.14 | 9.6  | 343   | , 139 | 3 27.7 | 4 0.68 | 19      | 4 2.10 | 9.5   | 336   | 136   |
|                               |          | Ente                                 | හ          | 5 28.1 | 0.92   | 21      | 1 2.09 | 9.4  | 328   | 129   | 7 27.2 | 0.88   | 22      | 3 2.07 | 9.4  | 325   | 127   | 3 25.9 | 0.84   | 22      | 9 2.04 | 9.5   | 319   | 125   |
|                               |          | 1                                    | 29         | 3 27.5 | 0.1    | 22      | 2.04   | 9.5  | 305   | . 121 | 26.7   | 0.94   | 23      | 3 2.03 | 9.5  | 302   | 120   | 3 25.3 | 0.00   | 23      | 1.99   | 9.0   | 296   | 117   |
|                               |          |                                      | 71         | 32.8   | 0.55   | 14      | 2.09   | 9.3  | 318   | 144   | 31.9   | 0.52   | 15      | 2.08   | 9.5  | 315   | 142   | 30.3   | 0.50   | 15      | 2.04   | 9.1   | 309   | 140   |
|                               | 75       |                                      | <b>29</b>  | 30.7   | 0.73   | 18      | 2.03   | 9.0  | 302   | 135   | 29.8   | 0.70   | 19      | . 2.01 | 9.0  | 302   | 134   | 28.3   | 0.67   | 19      | 1.97   | 8.8   | 296   | 131   |
|                               |          |                                      | 63         | 28.7   | 0.90   | 21      | 1.96   | 8.8  | 289   |       | 27.9   | 0.86   | 22      | 1.94   | 8.7  | 286   | 123   | 26.5   | 0.82   | 22      | 1.91   | 8.6   | 280   | 120   |
|                               | L        | _                                    | 29         | 28.1   | 96.0   | 22      | 1.92   | 8.6  | 268   | 116   | 27.3   | 0.91   | 22      | 1.90   | 8.5  | 266   | 115   | 25.9   | 0.87   | 23      | 1.87   | 8.4   | 260   | 113   |
|                               |          |                                      | 7          | . 33.6 | 0.53   | 14      | 1.94   | 8.7  | 283   | 136   | 32.6   | 0.50   | 15      | 1.92   | 8.6  | 281   | 135   | 31.0   | 0.48   | 15      | 1.89   | 8.5   | 275   | 132   |
|                               | 55       |                                      | 29         | 31.4   | 0.71   | 18      | 1.87   | 8.4  | 272   | 128   | 30.5   | 29.0   | 19      | 1.86   | 8.4  | 269   | 127   | 29.0   | 0.64   | 19      | 1.83   | 8.2   | 264   | 124   |
|                               |          |                                      | 83         | 29.4   | 0.87   | 20      | 1.81   | 8.2  | 257   | 117   | 28.6   | 0.83   | 21      | 1.80   | 8.1  | 255   | 116   | 27.1   | 0.79   | 22      | 1.77   | 8.0   | 250   | 114   |
| L                             |          |                                      | 29         | 28.8   | 0.92   | 21      | 1.78   | 8.0  | 239   | 110   | 28.0   | 0.88   | 22      | 1.76   | 8.0  | 237   | 109   | 26.6   | 0.84   | 23      | 1.73   | 7.9   | 232   | 107   |
|                               |          |                                      |            | MBh    | S/T    | Delta T | ΚM     | AMPS | HI PR | LOPR  | MBh    | Z/S    | Delta T | ΚW     | AMPS | HI PR | LOPR  | MBh    | Z/S    | Delta T | ΚM     | AMPS  | HI PR | LO PR |
|                               |          |                                      | Airflow    |        |        |         | 1145   |      |       |       |        |        |         | 1020   |      |       |       |        |        |         | 006    |       |       |       |
|                               |          |                                      | IDB*       |        |        |         |        |      |       |       |        |        |         | 8      |      |       |       |        |        |         |        |       |       |       |

|   | 27.3 | 0.79 | 17     | 2.57 | 11.9 | 517  | 172  | 26.5 | 0.75 | 18      | 2.55 | 11.8 | 512   | 170  | 25.2 | 0.72 | 18      | 2.51 | 11.6 | 502   | 167  |  |
|---|------|------|--------|------|------|------|------|------|------|---------|------|------|-------|------|------|------|---------|------|------|-------|------|--|
|   | 25.6 | 0.97 | 8      | 2.49 | 11.5 | 496  | 161  | 24.9 | 0.92 | 21      | 2.46 | 11.4 | 491   | 160  | 23.6 | 0.88 | 21      | 2.42 | 11.3 | 481   | 157  |  |
|   | 24.5 | 1.00 | 20     | 2.40 | 11.2 | 470  | 148  | 23.7 | 1.00 | 21      | 2.38 | 11.1 | 465   | 146  | 22.6 | 0.98 | 23      | 2.34 | 10.9 | 456   | 143  |  |
|   | 24.0 | 1.00 | 19     | 2:32 | 11.0 | 436  | 139  | 23.3 | 1.00 | 17      | 2.33 | 10.9 | 432   | 138  | 22.1 | 1.00 | 23      | 2.29 | 10.7 | 423   | 135  |  |
|   | 29.5 | 0.78 | 18     | 2.48 | 11.3 | 468  | 166  | 28.6 | 0.74 | 19      | 2.46 | 11.2 | 463   | 165  | 27.2 | 0.71 | 20      | 2.42 | 11.0 | 454   | 161  |  |
|   | 27.7 | 0.96 | 21     | 2.40 | 11.0 | 449  | 156  | 26.8 | 0.92 | 22      | 2.38 | 10.9 | 444   | 155  | 25.5 | 0.88 | 23      | 2.34 | 10.7 | 435   | 151  |  |
|   | 26.4 | 1.00 | 21     | 2.32 | 10.6 | 425  | 143  | 25.6 | 1.00 | 23      | 2.30 | 10.6 | 421   | 142  | 24.4 | 0.97 | 24      | 2.26 | 10.4 | 412   | 139  |  |
|   | 25.9 | 1.00 | 21     | 2.27 | 10.4 | 395  | 134  | 25.1 | 1.00 | 23      | 2.25 | 10.3 | 391   | 133  | 23.9 | 1.00 | 24      | 2.21 | 10.2 | 383   | 130  |  |
| suc   | 31.1 | 0.75 | 19     | 2.38 | 10.7 | 416  | 159  | 30.1 | 0.72 | 19      | 2.36 | 10.6 | 412   | 157  | 28.6 | 69.0 | 20      | 2.32 | 10.5 | 404   | 154  |  |
| g conditic                                  | 29.1 | 0.93 | 22     | 2.30 | 10.4 | 336  | 149  | 28.3 | 0.88 | 22      | 2.28 | 10.3 | 395   | 147  | 26.8 | 0.85 | 23      | 2.24 | 10.1 | 387   | 145  | n power                                      |
| Shaded area reflects AHRI rating conditions | 27.8 | 1.00 | 22     | 2.22 | 10.1 | 378  | 136  | 27.0 | 0.98 | 24      | 2.20 | 10.0 | 374   | 135  | 25.6 | 0.94 | 22      | 2.16 | 8.6  | 292   | 132  | KW = Total system power                      |
| eflects /                                   | 27.3 | 1.00 | 8      | 2.17 | 6.6  | 351  | 128  | 26.5 | 1.00 | 24      | 2.15 | 8.6  | 348   | 127  | 25.1 | 0.97 | 22      | 2.12 | 9.6  | 341   | 124  | W = TC                                       |
| d area r                                    | 31.8 | 0.73 | 19     | 2.25 | 10.1 | 365  | 151  | 30.9 | 0.69 | 19      | 2.23 | 10.0 | 362   | 150  | 29.4 | 99.0 | 20      | 2.19 | 6.6  | 354   | 147  | 1  |
| Shade                                       | 29.8 | 0.90 | 21     | 2.18 | 9.8  | 320  | 142  | 29.0 | 98.0 | 22      | 2.16 | 2.6  | 347   | 140  | 27.5 | 0.82 | 23      | 2.12 | 9.5  | 340   | 138  | rature                                       |
| NOTE  | 28.5 | 0.99 | 23     | 2.11 | 9.2  | 332  | 130  | 27.7 | 0.95 | 24      | 2.09 | 9.4  | 328   | 129  | 26.3 | 0.91 | 24      | 2.05 | 9.3  | 322   | 126  | Entering Indoor Dry Bulb Temperature         |
|   | 27.9 | 1.00 | 52     | 2.06 | 9.3  | 308  | 122  | 27.1 | 0.98 | 24      | 2.04 | 9.5  | 306   | 121  | 25.8 | 0.94 | 22      | 2.01 | 9.1  | 299   | 1 18 | ry Bulb                                      |
|   | 32.6 | 0.71 | 19     | 2.11 | 9.4  | 321  | 145  | 31.7 | 0.68 | 19      | 2.09 | 9.3  | 318   | 144  | 30.1 | 0.65 | 20      | 2.06 | 9.2  | 312   | 141  | ndoor  |
|   | 30.6 | 0.87 | 71     | 2.04 | 9.1  | 308  | 136  | 29.7 | 0.83 | 22      | 2.03 | 0.6  | 305   | 135  | 28.2 | 0.80 | 23      | 1.99 | 8.9  | 299   | 132  | Itering I                                    |
|   | 29.2 | 0.97 | 23     | 1.98 | 8.8  | 292  | 125  | 28.3 | 0.92 | 24      | 1.96 | 8.8  | 289   | 124  | 26.9 | 0.89 | 24      | 1.93 | 8.6  | 283   | 121  | IDB: Er                                      |
|   | 28.6 | 1.00 | 23     | 1.93 | 8.7  | 271  | 117  | 27.8 | 96'0 | 24      | 1.92 | 9.8  | 368   | 116  | 26.4 | 0.92 | 52      | 1.89 | 8.5  | 263   | 114  |  |
|   | 33.4 | 0.68 | 18     | 1.95 | 8.8  | 286  | 138  | 32.4 | 0.65 | 19      | 1.94 | 8.7  | 283   | 136  | 30.8 | 0.63 | 20      | 1.90 | 8.6  | 278   | 133  | ons  |
|   | 31.3 | 0.84 | 71     | 1.89 | 8.5  | 274  | 129  | 30.4 | 0.80 | 22      | 1.87 | 8.4  | 272   | 128  | 28.9 | 0.77 | 23      | 1.84 | 8.3  | 266   | 125  | Conditi                                      |
|   | 29.9 | 0.93 | 22     | 1.83 | 8.3  | 260  | 118  | 29.0 | 0.89 | 23      | 1.81 | 8.2  | 257   | 117  | 27.6 | 0.85 | 24      | 1.78 | 8.1  | 252   | 115  | Rating                                       |
|   | 29.3 | 0.97 | 23     | 1.79 | 8.1  | 241  | 111  | 28.5 | 0.92 | 24      | 1.78 | 8.0  | 239   | 110  | 27.0 | 0.89 | 24      | 1.75 | 6.7  | 234   | 108  | is AHR                                       |
|   | MBh  | S/T  | DeltaT | ΚM   | AMPS | H PR | LOPR | MBh  | S/T  | Delta T | ΚM   | AMPS | HI PR | LOPR | MBh  | S/T  | Delta T | ΚW   | AMPS | HI PR | LOPR | NOTE: Shaded areas is AHRI Rating Conditions |
|   |      |      |        | 1145 |      |      |      |      |      |         | 1020 |      |       |      |      |      |         | 006  |      |       |      | NOTE: Sh                                     |
|   |      |      |        |      |      |      |      |      |      |         | 82   |      |       |      |      |      |         |      |      |       |      | *  |

MODEL: GPC1330H41A\*

NOTE: Shaded areas is AHRI Rating Conditions IDB: Entering Indoor Dry Bulb Temperature High and low pressures are measured at the liquid and suction access fittings.

AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

### **5MM COILS**

### **GPC1336H41AB**

**COOLING OPERATION** 

## **EXPANDED PERFORMANCE DATA**

MODEL: GPC1336H41A\*

| - 3.16 3.23 3.33 -<br>- 14.2 14.5 14.9 - | 451  | 138 150 -  |
|--|--|--|
| 3.23                                     | 451  |  |
|  | 1 1  | 138  |
| - 3.16                                   | 419  |  |
|  | +  | 129  |
|  |  | ٠  |
| 3.22                                     |  | 145  |
| 3.12                                     |  | 133  |
| 3.06                                     | 379  | 125  |
|  |  | ٠  |
| 3.09                                     | 383  | 139  |
| 3.00                                     | 362  | 127  |
| 2.94                                     | 337  | 119  |
|  |  | -  |
| 2.94                                     | 336  | 132  |
| 2.86                                     | 318  | 121  |
| 2.80                                     | 296  | 114  |
|  |  | -  |
| 2.77                                     | 295  | 127  |
| 2.69                                     | 280  | 116  |
|  | 260  | 109  |
|  |  | -  |
| 2.58                                     | 263  | 120  |
| 2.51                                     | 249  | 110  |
| 2.46                                     | 232  | 103  |
| KW                                       | H PR   | LOPR   |
|  |  |  |
| 1050                                     |  |  |
|  | 2.46     2.51     2.58     -     2.80     2.86     2.94     -     2.94     3.00     3.09     -     3.06       10.6     10.8     11.1     -     11.3     11.5     11.8     -     12.1     12.3     12.7     -     12.8     13.1     13.4     -     13.5 | 2.46     2.51     2.58     -     2.64     2.69     2.77     -     2.80     2.86     2.94     -     2.94     3.00     3.09     -     3.06       10.6     10.8     11.1     -     11.3     11.5     11.8     -     12.1     12.7     -     12.8     13.1     13.4     -     13.5       232     249     263     -     290     296     318     336     -     337     362     383     -     379 |

| 34.3 | 0.42 | 10      | 3.59 | 16.1 | 522      | 168  | 33.3      | 0.40 | 10      | 3.56 | 15.9     | 517  | 167  | 30.8 | 0.39     | 10      | 3.47 | 15.5 | 501   | 162  |   |
|------|------|---------|------|------|----------|------|-----------|------|---------|------|----------|------|------|------|----------|---------|------|------|-------|------|---|
| 32.0 | 99.0 | 14      | 3.47 | 15.5 | 200      | 158  | 31.1      | 0.63 | 15      | 3.44 | 15.4     | 495  | 157  | 28.7 | 09.0     | 15      | 3.36 | 15.0 | 481   | 152  |   |
| 29.6 | 0.87 | 17      | 3.36 | 15.1 | 474      | 145  | 28.7      | 0.83 | 18      | 3.34 | 15.0     | 469  | 143  | 26.5 | 0.80     | 19      | 3.25 | 14.6 | 455   | 139  |   |
| 28.7 | 0.97 | 19      | 3.29 | 14.8 | 440      | 136  | 27.9      | 0.93 | 20      | 3.27 | 14.7     | 436  | 135  | 25.7 | 0.89     | 20      | 3.19 | 14.3 | 423   | 131  |   |
| 37.1 | 0.42 | 11      | 3.47 | 15.3 | 472      | 163  | 36.0      | 0.40 | 11      | 3.44 | 15.1     | 468  | 161  | 33.2 | 0.39     | 11      | 3.35 | 14.8 | 454   | 156  |   |
| 34.5 | 0.65 | 15      | 3.36 | 14.8 | 453      | 153  | 33.5      | 0.62 | 16      | 3.33 | 14.7     | 448  | 151  | 31.0 | 09.0     | 16      | 3.25 | 14.3 | 435   | 147  |   |
| 31.9 | 0.86 | 19      | 3.25 | 14.4 | 429      | 140  | 31.0      | 0.82 | 19      | 3.23 | 14.2     | 425  | 139  | 28.6 | 0.79     | 20      | 3.15 | 13.9 | 412   | 134  |   |
| 31.0 | 96.0 | 20      | 3.18 | 14.1 | 399      | 132  | 30.1      | 0.92 | 21      | 3.16 | 13.9     | 395  | 130  | 27.8 | 0.88     | 22      | 3.08 | 13.6 | 383   | 126  |   |
| 39.0 | 0.40 | 11      | 3.33 | 14.4 | 420      | 155  | 37.9      | 0.38 | 11      | 3.30 | 14.3     | 416  | 154  | 35.0 | 0.37     | 11      | 3.22 | 14.0 | 403   | 149  |   |
| 36.4 | 0.63 | 16      | 3.22 | 14.0 | 403      | 146  | 35.3      | 09.0 | 16      | 3.20 | 13.9     | 336  | 144  | 32.6 | 0.58     | 16      | 3.12 | 13.5 | 387   | 140  |   |
| 33.6 | 0.83 | 19      | 3.12 | 13.6 | 381      | 134  | 32.6      | 0.79 | 20      | 3.10 | 13.5     | 37.7 | 132  | 30.1 | 0.76     | 20      | 3.02 | 13.2 | 366   | 128  |   |
| 32.6 | 0.93 | 21      | 3.06 | 13.3 | 354      | 126  | 31.7      | 0.88 | 21      | 3.03 | 13.2     | 351  | 124  | 29.2 | 0.85     | 22      | 2.96 | 12.9 | 340   | 121  | ditions                                     |
| 40.0 | 0.39 | 11      | 3.16 | 13.6 | 369      | 148  | 38.8      | 0.37 | 11      | 3.14 | 13.5     | 365  | 146  | 35.8 | 98.0     | 11      | 3.06 | 13.2 | 354   | 142  | (A) con(                                    |
| 37.3 | 0.61 | 15      | 3.07 | 13.2 | 353      | 139  | 36.2      | 0.58 | 16      | 3.04 | 13.1     | 320  | 137  | 33.4 | 0.56     | 16      | 2.97 | 12.8 | 333   | 133  | CA (T)                                      |
| 34.4 | 0.80 | 19      | 2.97 | 12.8 | 335      | 127  | 33.4      | 0.77 | 20      | 2.95 | 12.7     | 331  | 126  | 30.9 | 0.74     | 20      | 2.88 | 12.4 | 321   | 122  | æisA(                                       |
| 33.4 | 0.30 | 20      | 2.91 | 12.6 | 311      | 120  | 32.5      | 0.86 | 21      | 2.89 | 12.5     | 308  | 118  | 30.0 | 0.83     | 22      | 2.82 | 12.2 | 299   | 115  | Shaded area is ACCA (TVA) conditions        |
| 41.0 | 0.38 | 11      | 2.98 | 12.7 | 324      | 142  | 39.8      | 0.36 | 11      | 2.96 | 12.6     | 321  | 141  | 36.7 | 0.35     | 11      | 2.89 | 12.3 | 311   | 137  | NOTE: Shi                                   |
| 38.2 | 0.59 | 15      | 2.89 | 12.3 | 311      | 134  | 37.1      | 0.57 | 16      | 2.87 | 12.2     | 308  | 132  | 34.2 | 0.55     | 16      | 2.80 | 11.9 | 299   | 128  | 2   |
| 35.3 | 0.78 | 19      | 2.80 | 12.0 | 294      | 122  | 34.2      | 0.75 | 20      | 2.78 | 11.9     | 291  | 121  | 31.6 | 0.72     | 20      | 2.71 | 11.6 | 283   | 118  |   |
| 34.3 | 0.88 | 20      | 2.74 | 11.7 | 274      | 115  | 33.3      | 0.84 | 21      | 2.72 | 11.6     | 27.1 | 114  | 30.7 | 0.81     | 22      | 2.66 | 11.4 | 263   | 110  |   |
| 42.0 | 0.37 | 11      | 2.77 | 11.9 | 289      | 135  | 38.0 40.7 | 0.35 | 11      | 2.75 | 11.8     | 286  | 133  | 37.6 | 0.34     | 11      | 2.68 | 11.5 | 277   | 129  | alle  |
| 39.1 | 0.57 | 15      | 2.69 | 11.5 | 277      | 126  |           | 0.55 | 16      | 2.67 | 11.4     | 274  | 125  | 32.0 | 0.53     | 16      | 2.60 | 11.2 | 266   | 121  | mperat                                      |
| 36.1 | 92.0 | 19      | 2.61 | 11.2 | 262      | 116  | 35.1      | 0.72 | 19      | 2.59 | 11.1     | 260  | 115  | 32.4 | 69.0     | 20      | 2.53 | 10.9 | 252   | 111  | Bulb Te                                     |
| 35.1 | 0.84 | 20      | 2.55 | 11.0 | 244      | 109  | 34.1      | 0.81 | 21      | 2.53 | 10.9     | 241  | 108  | 31.4 | 0.78     | 21      | 2.48 | 10.7 | 234   | 105  | oor Dry                                     |
| MBh  | S/T  | Delta T | KW   | AMPS | H PR     | LOPR | MBh       | S/T  | Delta T | KW   | AMPS     | H PR | LOPR | MBh  | S/T      | Delta T | KW   | AMPS | HI PR | LOPR | * IDB: Entering Indoor Dry Bulb Temperature |
|      |      |         | 1350 |      | <u> </u> | I    |           |      |         | 1200 | <u> </u> |      | ı    |      | <u> </u> |         | 1050 |      |       |      | * IDB: E                                    |
|      |      |         |      |      |          |      |           |      |         | 72   |          |      |      | _    |          |         |      |      |       |      |   |

High and low pressures are measured at the liquid and suction access fittings. \* IDB: Entering Indoor Dry Bulb Temperature

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### **5MM COILS**

### **GPC1336H41AB**

### **COOLING OPERATION**

| MOD  | EL: G   | MODEL: GPC1336H41A* | 41A* |      |           |      |      | Ä    | PA   | N    | <u> </u> | 马氏                       | <b>FC</b>                  | RN      | MA      | CE                          | PANDED PERFORMANCE DATA | ₹    |      |      | O    | COOL   | .ING   | COOLING OPERATION | ₹ATI   | N<br>O |
|------|---------|---------------------|------|------|-----------|------|------|------|------|------|----------|--------------------------|----------------------------|---------|---------|-----------------------------|-------------------------|------|------|------|------|--------|--------|-------------------|--------|--------|
|      |         |                     |      |      |           |      |      |      |      |      |          |                          | Jutdoor                    | Ambie   | nt Temp | Outdoor Ambient Temperature |                         |      |      |      |      |        |        |                   |        | П      |
|      |         |                     |      | 9    | 65        |      |      | 7    | 75   |      |          | 85                       |                            |         |         | 92                          |                         |      |      | 105  | •    |        |        | 115               |        |        |
|      |         |                     |      |      |           |      |      |      |      |      | 1        | <u>-</u> nterin <u>c</u> | <b>Entering Indoor Wet</b> | r Wet B | ulb Ten | <b>Bulb Temperature</b>     | 9                       |      |      |      |      |        |        |                   |        |        |
| IDB* | Airflow |                     | 59   | 63   | <b>29</b> | 71   | 29   | 63   | 29   | 71   | 29       | 63                       | 29                         | 71      | 29      | ස                           | 67                      | 71   | 29   | 63   | 29   | 71     | 29     | 63 (              | 29     | 71     |
|      |         | MBh                 | 35.7 | 36.5 | 39.0      | 41.7 | 34.9 | 35.6 | 38.1 | 40.7 | 34.0     | 34.8                     | 37.2                       | 39.7    | 33.2    | 33.9                        | 36.3                    | 38.8 | 31.5 | 32.2 | 34.4 | 36.8   | 29.2   | 29.9              | 31.9   | 34.1   |
|      |         | S/T                 | 0.93 | 0.87 | 0.71      | 0.53 | 96'0 | 06.0 | 0.73 | 0.55 | 1.00     | 0.92                     | 0.75                       | 0.56    | 1.00    | 0.95                        | 0.78                    | 0.58 | 1.00 | 1.00 | 0.81 | 09:0   | 1.00   | 1.00 0            | 0.81 ( | 0.61   |
|      |         | Delta T             | 23   | 22   | 19        | 15   | 23   | 22   | 19   | 15   | 23       | 22                       | 19                         | 15      | 23      | 22                          | 19                      | 15   | 21   | 22   | 19   | 15     | 20     | 20                | 18     | 14     |
|      | 1350    | KW                  | 2.57 | 2.63 | 2.71      | 2.79 | 2.77 | 2.82 | 2.91 | 3.00 | 2.93     | 3.00                     | 3.09                       | 3.19    | 3.08    | 3.15                        | 3.25                    | 3.36 | 3.21 | 3.28 | 3.39 | 3.50   | 3.32   | 3.39 3            | 3.50   | 3.62   |
|      |         | AMPS                | 11.1 | 11.3 | 11.6      | 12.0 | 11.8 | 12.1 | 12.4 | 12.8 | 12.7     | 12.9                     | 13.3                       | 13.7    | 13.4    | 13.7                        | 14.1                    | 14.6 | 14.2 | 14.5 | 14.9 | 15.4   | 14.9   | 15.2 1            | 15.7   | 16.2   |
|      |         | H R                 | 246  | 265  | 280       | 292  | 276  | 297  | 314  | 327  | 314      | 338                      | 327                        | 372     | 358     | 385                         | 407                     | 424  | 403  | 433  | 458  | 477    | 445    | 479 5             | 202    | 527    |
|      |         | LO PR               | 110  | 117  | 128       | 136  | 116  | 124  | 135  | 144  | 121      | 128                      | 140                        | 149     | 127     | 135                         | 147                     | 157  | 133  | 141  | 154  | 164    | 137    | 146 1             | 160    | 170    |
|      |         | MBh                 | 34.7 | 35.4 | 37.8      | 40.5 | 33.9 | 34.6 | 37.0 | 39.5 | 33.0     | 33.8                     | 36.1                       | 38.6    | 32.2    | 32.9                        | 35.2                    | 37.6 | 30.6 | 31.3 | 33.4 | 35.7   | 28.4   | 29.0 3            | 31.0   | 33.1   |
|      |         | S/T                 | 0.88 | 0.83 | 0.67      | 0.50 | 0.92 | 0.86 | 0.70 | 0.52 | 0.94     | 0.88                     | 0.72                       | 0.54 (  | 0.97    | 0.91                        | 0.74                    | 0.55 | 1.00 | 0.94 | 0.77 | 0.57   | 1.00 ( | 0.95 0            | 0.77 ( | 0.58   |
|      |         | Delta T             | 23   | 22   | 20        | 16   | 24   | 23   | 20   | 16   | 24       | 23                       | 20                         | 16      | 24      | 23                          | 20                      | 16   | 23   | 23   | 20   | 16     | 22     | 21                | 18     | 15     |
| 8    | 1200    | KW                  | 2.55 | 2.61 | 2.69      | 2.77 | 2.74 | 2.80 | 2.89 | 2.98 | 2.91     | 2.97                     | 3.07                       | 3.17    | 3.06    | 3.12                        | 3.22                    | 3.33 | 3.18 | 3.25 | 3.36 | 3.47   | 3.29   |                   | 3.47   | 3.59   |
|      |         | AMPS                | 11.0 | 11.2 | 11.5      | 11.9 | 11.7 | 12.0 | 12.3 | 12.7 | 12.6     | 12.8                     | 13.2                       | 13.6    | 13.3    | 13.6                        | 14.0                    | 14.4 | 14.1 | 14.4 | 14.8 | 15.3   | 14.8   | 15.1 1            | 15.5   | 16.1   |
|      |         | H PR                | 244  | 262  | 277       | 289  | 274  | 294  | 311  | 324  | 311      | 335                      | 354                        | 369     | 354     | 381                         | 403                     | 420  | 399  | 429  | 453  | 472    | 440    | 474 5             | 500    | 522    |
|      |         | LO PR               | 109  | 116  | 126       | 135  | 115  | 122  | 134  | 142  | 120      | 127                      | 139                        | 148     | 126     | 134                         | 146                     | 155  | 132  | 140  | 153  | 163    | 136    | 145 1             | 158    | 168    |
|      |         | MBh                 | 32.0 | 32.7 | 34.9      | 37.3 | 31.2 | 31.9 | 34.1 | 36.5 | 30.5     | 31.2                     | 33.3                       | 35.6    | 29.8    | 30.4                        | 32.5                    | 34.7 | 28.3 | 28.9 | 30.9 | 33.0   | 26.2   | 26.8 2            | 28.6   | 30.6   |
|      |         | S/T                 | 0.85 | 0.80 | 0.65      | 0.49 | 0.88 | 0.83 | 0.67 | 0.50 | 0.91     | 0.85                     | 69.0                       | 0.52    | 0.93    | 0.88                        | 0.71                    | 0.53 | 0.97 | 0.91 | 0.74 | 0.55 ( | 0.98 ( | 0.92 0            | 0.75 ( | 0.56   |
|      |         | Delta T             | 24   | 23   | 20        | 16   | 24   | 23   | 20   | 16   | 24       | 23                       | 20                         | 16      | 24      | 23                          | 20                      | 16   | 24   | 23   | 20   | 16     | 22     | 21                | 19     | 15     |
|      | 1050    | KW                  | 2.50 | 2.55 | 2.62      | 2.70 | 2.68 | 2.73 | 2.82 | 2.91 | 2.84     | 2.90                     | 2.99                       | 3.09    | 2.98    | 3.05                        | 3.15                    | 325  | 3.11 | 3.17 | 3.28 | 3.38   | 3.21   | 3.28 3            | 3.39   | 3.50   |
|      |         | AMPS                | 10.7 | 11.0 | 11.3      | 11.6 | 11.5 | 11.7 | 12.0 | 12.4 | 12.3     | 12.5                     | 12.9                       | 13.3    | 13.0    | 13.3                        | 13.7                    | 14.1 | 13.7 | 14.0 | 14.4 | 14.9   | 14.4   | 14.7 1            | 15.2   | 15.7   |
|      |         | H PR                | 236  | 254  | 269       | 280  | 265  | 286  | 302  | 314  | 302      | 325                      | 343                        | 328     | 344     | 370                         | 391                     | 407  | 387  | 416  | 439  | 458    | 427    | 460 4             | 485 ;  | 506    |
|      |         | LO PR               | 106  | 112  | 123       | 131  | 112  | 119  | 130  | 138  | 116      | 123                      | 135                        | 143     | 122     | 130                         | 141                     | 151  | 128  | 136  | 148  | 158    | 132    | 140 1             | 153    | 163    |

|      |      |         |      |      |     |       |      |      |         | _    | -    |     |       | _    |      |         | _    | -    |       |       |  |
|------|------|---------|------|------|-----|-------|------|------|---------|------|------|-----|-------|------|------|---------|------|------|-------|-------|--|
| 33.9 | 0.79 | 18      | 3.65 | 16.3 | 533 | 172   | 32.9 | 0.75 | 19      | 3.62 | 16.2 | 527 | 170   | 30.3 | 0.72 | 19      | 3.53 | 15.8 | 511   | 165   |  |
| 31.7 | 0.97 | 21      | 3.53 | 15.8 | 511 | 161   | 30.8 | 0.93 | 22      | 3.50 | 15.7 | 202 | 160   | 28.4 | 0.89 | 22      | 3.42 | 15.3 | 490   | 155   |  |
| 30.3 | 1.00 | 21      | 3.42 | 15.3 | 483 | 148   | 29.4 | 1.00 | 23      | 3.39 | 15.2 | 479 | 146   | 27.2 | 0.99 | 24      | 3.31 | 14.8 | 464   | 142   |  |
| 29.7 | 1.00 | 20      | 3.35 | 15.0 | 449 | 139   | 28.9 | 1.00 | 22      | 3.32 | 14.9 | 445 | 137   | 26.6 | 1.00 | 23      | 3.24 | 14.5 | 431   | 133   |  |
| 36.6 | 0.78 | 19      | 3.53 | 15.5 | 482 | 166   | 35.5 | 0.75 | 20      | 3.50 | 15.4 | 477 | 164   | 32.8 | 0.72 | 21      | 3.41 | 15.0 | 463   | 159   |  |
| 34.3 | 96.0 | 22      | 3.41 | 15.0 | 462 | 156   | 33.3 | 0.92 | 23      | 3.39 | 14.9 | 458 | 154   | 30.7 | 0.89 | 24      | 3.30 | 14.5 | 444   | 150   |  |
| 32.7 | 1.00 | 22      | 3.31 | 14.6 | 438 | 143   | 31.8 | 1.00 | 24      | 3.28 | 14.5 | 433 | 141   | 29.3 | 0.98 | 22      | 3.20 | 14.1 | 420   | 137   |  |
| 32.1 | 1.00 | 22      | 3.24 | 14.3 | 407 | 134   | 31.2 | 1.00 | 24      | 3.21 | 14.2 | 403 | 133   | 28.8 | 1.00 | 25      | 3.13 | 13.8 | 391   | 129   |  |
| 38.5 | 0.75 | 20      | 3.38 | 14.7 | 428 | 158   | 37.4 | 0.72 | 21      | 3.36 | 14.6 | 424 | 157   | 34.5 | 69.0 | 21      | 327  | 14.2 | 411   | 152   |  |
| 36.1 | 0.93 | 23      | 3.28 | 14.2 | 411 | 149   | 35.0 | 0.89 | 24      | 3.25 | 14.1 | 407 | 147   | 32.3 | 0.85 | 24      | 3.17 | 13.8 | 394   | 143   | m power  |
| 34.4 | 1.00 | 23      | 3.18 | 13.8 | 389 | 136   | 33.4 | 0.98 | 22      | 3.15 | 13.7 | 382 | 135   | 30.9 | 0.95 | 26      | 3.07 | 13.4 | 374   | 131   | KW = Total system power                        |
| 33.8 | 1.00 | 23      | 3.11 | 13.5 | 361 | 128   | 32.8 | 1.00 | 22      | 3.08 | 13.4 | 328 | 127   | 30.3 | 0.98 | 26      | 3.01 | 13.1 | 347   | 123   | KW = T   |
| 39.4 | 0.73 | 20      | 3.22 | 13.9 | 376 | 151   | 38.3 | 0.70 | 20      | 3.19 | 13.7 | 372 | 149   | 35.4 | 0.67 | 21      | 3.11 | 13.4 | 361   | 145   |  |
| 37.0 | 06.0 | 23      | 3.12 | 13.4 | 361 | 142   | 35.9 | 0.86 | 24      | 3.09 | 13.3 | 357 | 140   | 33.1 | 0.83 | 24      | 3.02 | 13.0 | 346   | 136   | rature   |
| 35.3 | 1.00 | 24      | 3.02 | 13.0 | 342 | 130   | 34.3 | 0.95 | 22      | 3.00 | 12.9 | 338 | 128   | 31.6 | 0.92 | 22      | 2.92 | 12.6 | 328   | 125   | Tempe  |
| 34.6 | 1.00 | 24      | 2.96 | 12.8 | 317 | 122   | 33.6 | 0.98 | 22      | 2.93 | 12.7 | 314 | 121   | 31.0 | 0.95 | 26      | 2.86 | 12.4 | 302   | 117   | ry Bulb  |
| 40.4 | 0.71 | 20      | 3.03 | 12.9 | 331 | 145   | 39.2 | 0.68 | 20      | 3.00 | 12.8 | 327 | 144   | 36.2 | 0.65 | 21      | 2.93 | 12.5 | 318   | 139   | IDB: Entering Indoor Dry Bulb Temperature      |
| 37.9 | 0.88 | 23      | 2.93 | 12.5 | 317 | 136   | 36.8 | 0.84 | 24      | 2.91 | 12.4 | 314 | 135   | 33.9 | 0.81 | 24      | 2.84 | 12.1 | 302   | 131   | lering I                                       |
| 36.2 | 0.97 | 24      | 2.85 | 12.2 | 300 | 125   | 35.1 | 0.93 | 25      | 2.82 | 12.1 | 297 | 124   | 32.4 | 0.89 | 25      | 2.76 | 11.8 | 288   | 120   | IDB: Er  |
| 35.5 | 1.00 | 24      | 2.79 | 11.9 | 279 | 117   | 34.4 | 96.0 | 25      | 2.77 | 11.8 | 276 | 116   | 31.8 | 0.93 | 26      | 2.70 | 11.5 | 268   | 113   |  |
| 41.4 | 0.69 | 19      | 2.81 | 12.1 | 295 | 137   | 402  | 0.65 | 20      | 2.79 | 12.0 | 292 | 136   | 37.1 | 0.63 | 20      | 2.73 | 11.7 | 283   | 132   | ions   |
| 38.8 | 0.85 | 22      | 2.73 | 11.7 | 283 | 129   | 37.7 | 0.81 | 23      | 2.71 | 11.6 | 280 | 128   | 34.8 | 0.78 | 24      | 2.64 | 11.3 | 271   | 124   | Condit   |
| 37.0 | 0.94 | 24      | 2.65 | 11.4 | 268 | 118   | 35.9 | 0.89 | 25      | 2.63 | 11.3 | 265 | 117   | 33.2 | 0.86 | 25      | 2.57 | 11.0 | 257   | 113   | Rating   |
| 36.3 | 0.97 | 24      | 2.59 | 11.2 | 249 | 111   | 35.3 | 0.93 | 22      | 2.57 | 11.1 | 246 | 110   | 32.6 | 0.89 | 25      | 2.51 | 10.8 | 239   | 107   | is AHR   |
| MBh  | L/S  | Delta T | МЖ   | AMPS | H R | LO PR | ИВИ  | L/S  | Delta T | МЖ   | AMPS | ж н | LO PR | MBh  | 1/S  | Delta T | MЖ   | AMPS | HI PR | NA OT | * NOTE: Shaded areas is AHRI Rating Conditions |
|      |      |         | 1350 |      |     |       |      |      |         | 1200 | -    |     |       |      |      |         | 1050 |      |       |       | NOTE: SP                                       |
|      |      |         |      |      |     |       |      |      |         | 82   |      |     |       |      |      |         |      |      |       |       | *  |

IDB: Entering Indoor Dry Bulb Temperature NOTE: Shaded areas is AHRI Rating Conditions

AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

High and low pressures are measured at the liquid and suction access fittings.

### **5MM COILS**

### **GPC1342H41AB**

### **COOLING OPERATION**

# **EXPANDED PERFORMANCE DATA**

MODEL: GPC1342H41A\*

| MBh   40.2   41.6   45.6   -   39.2   40.7   44.6   -   38.3   39.7     ST   0.77   0.65   0.45   -   0.80   0.67   0.46   -   0.82   0.69     LOPK   12.3   12.5   12.9   -   13.4   13.7   -   14.0     AMPS   12.3   2.24   2.56   -   2.97   3.03   3.12   -   14.0     LOPK   110   117   128   -   13.4   13.7   -   14.0   14.3     LOPK   110   117   128   -   13.4   13.7   -   14.0   14.3     LOPK   110   117   128   -   13.4   13.7   -   14.0   14.3      AMPS   12.2   2.12   2.25   2.25   2.25   2.25   2.27   2.87   -   2.87   3.06      LOPK   110   117   128   -   17.4   13.4   13.7   -   14.0   14.3      AMPS   12.2   2.12   2.12   2.12   2.12   2.12   2.12   2.12      LOPK   110   117   128   -   13.4   13.4   13.7   -   14.0   14.2      AMPS   12.2   2.12   2.12   2.12   2.12   2.12   2.12   2.12   2.12   2.12   2.12      LOPK   110   12.7   2.81   2.80   -   2.95   2.00   3.00   3.00   3.00      LOPK   110   12.7   2.81   2.80   -   2.95   3.00   3.00   3.00   3.00      LOPK   110   12.7   2.81   2.80   -   13.3   3.14   3.15   3.16      LOPK   12.0   2.74   2.82   -   13.0   13.3   -   13.0   13.0      LOPK   KW   2.62   2.74   2.82   -   2.84   3.05   3.00   3.00   3.00      LOPK   12.0   12.2   12.5   -   19   17   13   -   19   17      LAMPS   12.0   12.2   12.5   -   13.0   13.3   -   13.6   13.9      LOPK   HI PR   2.16   2.33   2.46   -   2.42   2.61   2.75   -   2.76   2.97      LOPK   110   12.2   12.5   -   12.7   13.0   13.3   -   13.6   13.9      LOPK   110   12.2   12.5   -   12.7   13.0   13.3   -   13.6   13.9      LOPK   110   12.2   12.5   -   12.7   13.0   13.1   -   13.6   13.9      LOPK   110   12.1   12.1   13.0   13.1   -   13.6   13.9      LOPK   110   12.1   12.1   13.0   13.1   -   13.6   13.9      LOPK   110   12.1   12.1   13.0   13.1   -   13.6   13.9      LOPK   110   12.1   12.1   13.0   13.1   -   13.6   13.9      LOPK   110   12.1   13.1   13.0   -   13.0   -   13.6   13.9      LOPK   110   12.1   13.0   13.1   -   13.0   -   13.0   -   13.0      LOPK   12.1   12.1   13.0    |      |         |         |      |      |      |    |      |      |      |          |   | °       | Outdoor Ambient Temperature | Ambie  | nt Temp | erature  |      |    |      |      |      |    |      |      |      |    |
|---|------|---------|---------|------|------|------|----|------|------|------|----------|---|---------|-----------------------------|--------|---------|----------|------|----|------|------|------|----|------|------|------|----|
| Milk   402   416   456   5   5   61   61   7   7   59   63   61   7   7   59   63   67   7   7   59   63   67   7   7   59   63   67   7   7   59   63   67   7   7   61   61   61   7   7   61   7   7   61   7   7   61   7   7   61   7   7   61   7   7   61   7   7   7   61   7   7   7   7   7   7   7   7   7   |      |         |         |      | g    | 5    |    |      | 75   |      | $\vdash$ |   | 85      |                             | F      |         | 95       |      |    |      | 105  |      |    |      | 11   |      |    |
| Milkin   M  |      |         |         |      |      |      |    |      |      |      |          | Ф | ntering | Indoor                      | Wet B  | mel dir | perature | •    |    |      |      |      |    |      |      |      |    |
| MBh   402 416 456 - 3 99.2 40.7 446 - 3 89.3 99.7 435 - 3 74 38.7 424 - 3 55 86 4 0.3 - 9 59 8 4.1 37.3 37.4 38.7 424 - 9 10.8 0.74 0.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | IDB* | Airflow |         | 29   | 63   | 29   | 71 | 29   | 63   | 29   | 71       |   | ೞ       |                             | 71     | 29      | ಜ        | 29   | 71 | 29   | છ    | 29   | 71 | 29   | 63   | 29   | 71 |
| STT   0.77   0.65   0.45   0.46   0.46   0.46   0.48   0.48   0.48   0.48   0.49   0  |      |         | MBh     | 40.2 | 41.6 | 45.6 |    |      | 40.7 | 44.6 |          |   |         | 43.5                        |        |         | 38.7     | 42.4 | -  |      |      | 40.3 |    | 6    | 34.1 | 37.3 |    |
| Mail     |      |         | S/T     | 0.77 | 0.65 | 0.45 |    | 0.80 |      | 0.46 | H        |   |         | 0.48                        | -      |         | 0.71     | 0.49 | -  |      |      | 0.51 |    |      | 0.74 | 0.51 | -  |
| 1580         KW         2.77         2.83         2.91         3.03         3.12         3.4         3.20         3.30         3.20         3.60         3.60         3.60         3.60         3.72         3.60         3.72         3.80         3.72         3.80         3.72         3.80         3.72         3.80         3.72         3.60         3.80         3.80         3.72         3.80         3.72         3.80         3.80         3.80         3.80         3.80         3.80         3.72         3.80         3.80         3.80         3.80         3.80         3.72         3.80         3.   |      |         | Delta T | 18   | 16   | 12   |    | 18   | 16   | 12   | -        |   | 16      | 12                          | -      | 18      | 16       | 12   | -  | 18   | 16   | 12   | -  | 17   | 15   | 11   | -  |
| AMPS         12.5         12.6         12.6         12.6         12.6         16.7         16.6         16.7         16.6         17.7         18.6         18.7         18.6         18.7         18.6         18.7         18.6         18.7         18.6         18.7         18.7         18.7         18.7         18.7         18.7         18.7         18.7         18.7         18.7         18.7         18.7         18.7         18.7         18.7         18.7         18.7 <th< td=""><td></td><td>1580</td><td>ΚW</td><td>2.77</td><td>2.83</td><td>2.91</td><td></td><td>2.97</td><td></td><td>3.12</td><td></td><td></td><td></td><td>3.30</td><td>-</td><td></td><td>3.36</td><td>3.46</td><td></td><td></td><td></td><td>3.60</td><td></td><td></td><td>3.60</td><td>3.72</td><td>-</td></th<>  |      | 1580    | ΚW      | 2.77 | 2.83 | 2.91 |    | 2.97 |      | 3.12 |          |   |         | 3.30                        | -      |         | 3.36     | 3.46 |    |      |      | 3.60 |    |      | 3.60 | 3.72 | -  |
| HIPR 225 242 256 - 2 22 2 27 2 287 - 2 29 309 326 - 3 52 372 - 3 56 396 418 - 4 06 437 462  HIPR 225 242 256 - 2 22 2 27 2 287 - 2 29 41 - 1 24 135 - 1 129 141 - 1 124 135 - |      |         | AMPS    | 12.3 | 12.5 | 12.9 |    | 13.1 | 13.4 | 13.7 |          |   |         | 14.7                        | ·<br>- |         | 15.1     | 15.6 | -  |      |      | 16.4 | -  | 16.4 | 16.8 | 17.3 | -  |
| MBh   390   40.4   44.3   -   124   135   -   124   135   -   124   135   -   124   135   -   124   135   -   124   135   -   124   135   -   124   135   -   124   135   -   124   135   -   124   135   -   124   135   -   124   135   -   124   135   -   124   135   -   124   135   -   124   -   125   -   124   -   124   -   124   -   124   -   124   -   124   -   124   -   124   -   124   -   124   -   125   -   124   -   124   -   124   -   124   -   124   -   125   -   124   -   |      |         | HI PR   | 225  | 242  | 256  |    | 252  | 272  | 287  |          |   |         | 326                         |        |         | 352      | 372  | -  | 368  |      | 418  | -  | 406  | 437  | 462  | -  |
| WBh         39.0         40.4         44.3         -         38.1         36.5         42.2         -         36.3         37.6         41.2         -         34.5         35.7         38.1         36.3         37.6         41.2         -         34.6         36.7         38.1         37.9         31.9         33.1         36.3           STT         0.74         0.62         0.43         -         0.74         0.66         0.44         -         12         1         12         1         12         1         16         12         1         16         12         1         16         12         1         1         13         14         1         13         14         14         15         13         14         14         15         15         16         17         14         15         14         16         17         14         14         15         15         16         17         18         18         27         323         343         34         34         35         34         34         34         34         34         34         34         34         34         34         34         34         34 <t< td=""><td></td><td></td><td>LO PR</td><td>110</td><td>117</td><td>128</td><td></td><td>117</td><td>124</td><td>135</td><td>Н</td><td></td><td>129</td><td>141</td><td>H</td><td>127</td><td>135</td><td>148</td><td>-</td><td>133</td><td>142</td><td>155</td><td>-</td><td>138</td><td>147</td><td>160</td><td>-</td></t<>   |      |         | LO PR   | 110  | 117  | 128  |    | 117  | 124  | 135  | Н        |   | 129     | 141                         | H      | 127     | 135      | 148  | -  | 133  | 142  | 155  | -  | 138  | 147  | 160  | -  |
| STT         0.74         0.62         0.43         0.77         0.64         0.44         0.76         0.66         0.45         0.81         0.68         0.47         0.84         0.70         0.49         0.71         0.49         0.77         0.64         0.44         0.76         0.66         0.45         0.81         0.68         0.47         0.84         0.70         0.49         0.70         0.49         0.70         0.49         0.71         0.49           H10         KW         2.75         2.81         2.86         3.00         3.09         3.12         3.18         3.27         3.33         3.43         3.9         3.46         3.57         3.50         3.69         3.7         3.37         3.33         3.43         3.43         3.43         3.43         3.43         3.43         3.45         3.69         3.69         3.14         1.46         1.47         150         154         1.61         1.7         1.6         1.7         1.8         1.7         1.8         1.7         1.8         1.44         1.4         1.50         1.8         3.6         3.60         3.09         3.1         3.24         3.45         3.6         3.00         3.09         3  | _    |         | MBh     | 39.0 | 40.4 | 44.3 |    |      |      | 43.3 |          |   |         | 42.2                        |        |         | 37.6     | 41.2 |    |      |      | 39.1 |    |      | 33.1 | 36.3 |    |
| Delta T 19 16 12 2.89 - 2.95 3.00 3.09 - 2.1 4.0 10 10 10 10 10 10 10 10 10 10 10 10 10   |      |         | ΣγΣ     | 0.74 | 0.62 | 0.43 |    |      | ı    | 0.44 | H        | ı | ı       | 0.45                        | H      |         | 0.68     | 0.47 |    | ı    | l    | 0.49 |    | ı    | 0.71 | 0.49 |    |
| 4410         KW         2.75         2.81         2.89         3.10         3.09         3.10         3   |      |         | Delta T | 19   | 16   | 12   |    | 19   | 16   | 12   |          |   | 16      | 12                          | -      | 19      | 17       | 13   | -  | 19   | 16   | 12   | -  | 18   | 15   | 12   | -  |
| AMPS         12.2         12.5         12.8         12.8         12.9 <th< td=""><td>2</td><td>1410</td><td>ΚW</td><td>2.75</td><td>2.81</td><td>2.89</td><td></td><td>2.95</td><td></td><td>3.09</td><td>Н</td><td></td><td></td><td>3.27</td><td></td><td></td><td>3.33</td><td>3.43</td><td>-</td><td></td><td></td><td>3.57</td><td></td><td></td><td>3.58</td><td>3.69</td><td>-</td></th<>  | 2    | 1410    | ΚW      | 2.75 | 2.81 | 2.89 |    | 2.95 |      | 3.09 | Н        |   |         | 3.27                        |        |         | 3.33     | 3.43 | -  |      |      | 3.57 |    |      | 3.58 | 3.69 | -  |
| HIPR 223 240 553 - 2 50 269 284 - 2 84 306 323 - 3 24 368 36 36 4 4 4 5 5 4 4 4 5 6 4 4 4 5 4 4 4 4 5 4 4 4 4   |      |         | AMPS    | 12.2 | 12.5 | 12.8 |    | 13.0 | 13.3 | 13.6 |          |   |         | 14.6                        | ·<br>- |         | 15.0     | 15.4 | -  |      |      | 16.3 | -  |      | 16.6 | 17.1 | -  |
| LOPR         160         116         127         115         123         134         126         134         146         146         15         140         153         145         159         145         159         146         150         140         140 <td></td> <td></td> <td>H PR</td> <td>223</td> <td>240</td> <td>253</td> <td></td> <td>250</td> <td>269</td> <td>284</td> <td>-</td> <td></td> <td></td> <td>323</td> <td></td> <td></td> <td>348</td> <td>368</td> <td>-</td> <td>364</td> <td></td> <td>414</td> <td>-</td> <td>402</td> <td>433</td> <td>457</td> <td>-</td>   |      |         | H PR    | 223  | 240  | 253  |    | 250  | 269  | 284  | -        |   |         | 323                         |        |         | 348      | 368  | -  | 364  |      | 414  | -  | 402  | 433  | 457  | -  |
| MBh         360         37.3         40.9         36.2         36.4         39.9         40.9         36.0         3   |      |         | LO PR   | 109  | 116  | 127  | -  | 115  | 123  | 134  | 1        |   | 128     | 139                         | 1      | 126     | 134      | 146  |    | 132  | 140  | 153  | 1  | 137  | 145  | 159  |    |
| ST         0.71         0.59         0.41         0.62         0.43         0.63         0.44         0.78         0.65         0.45         0.45         0.79         0.63         0.44         0.78         0.65         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.47         0.80         0.40         0.80         0.41         0.80         0.42         0.80         0.42         0.80         0   |      |         | MBh     | 36.0 | 37.3 | 40.9 |    | 35.2 | 36.4 | 39.9 | -        |   |         | 39.0                        | ;<br>- |         | 34.7     | 38.0 |    |      |      | 36.1 | Н  |      | 30.5 | 33.5 |    |
| Delta T         19         16         12         19         17         13         -         19         17         13         -         19         17         13         -         19         17         13         -         19         17         13         -         19         17         13         -         19         17         13         -         19         17         13         -         19         17         13         -         19         17         13         -         11         13         13         3.20         -         3.19         3.25         3.35         -         15.2         15.2         15.9         -         19         3.40         -         19         14.4         14.7         15.1         -         15.9         -         15.9         -         15.9         -         15.9         -         15.9         -         15.9         -         15.9         -         15.9         -         15.9         -         15.9         -         15.9         -         15.9         -         15.9         -         15.9         15.9         15.9         15.9         15.9         15.9         15.9         15.9         15  |      |         | S/T     | 0.71 |      | 0.41 |    |      |      | 0.43 |          |   |         | 0.44                        | ) -    |         | 0.65     | 0.45 | -  |      |      | 0.47 | -  |      | 0.68 | 0.47 | -  |
| KW         2.69         274         2.82         2.94         3.02         3.04         3.11         3.20         3.19         3.25         3.35         3.31         3.38         3.49         3.42         3.49         3.   |      |         | Delta T | 19   | 16   | 12   | 1  | 19   | 17   | 13   | -        |   | 17      | 13                          | -      | 19      | 17       | 13   |    | 19   | 17   | 13   | -  | 18   | 15   | 12   | -  |
| 12.0     12.2     12.5     -     12.7     13.0     13.6     13.9     14.3     -     14.4     14.7     15.1     -     15.2     15.5     15.9     -     16.9 <td></td> <td>1240</td> <td>KW</td> <td>2.69</td> <td>2.74</td> <td>2.82</td> <td>ı</td> <td>2.88</td> <td></td> <td>3.02</td> <td></td> <td></td> <td></td> <td>3.20</td> <td></td> <td></td> <td>3.25</td> <td>3.35</td> <td>-</td> <td></td> <td></td> <td>3.49</td> <td></td> <td></td> <td>3.49</td> <td>3.60</td> <td></td>   |      | 1240    | KW      | 2.69 | 2.74 | 2.82 | ı  | 2.88 |      | 3.02 |          |   |         | 3.20                        |        |         | 3.25     | 3.35 | -  |      |      | 3.49 |    |      | 3.49 | 3.60 |    |
| 216     233     246     -     242     261     275     -     276     297     313     -     314     338     357     -     363     380     401     -     90     420       106     113     123     -     12     130     142     -     12     13     14     -     14     -     14     -     14     -     14     -     12     14     -     14     -     15     14     -     14     -     15     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     -     14     - <td< td=""><td></td><td></td><td>AMPS</td><td></td><td></td><td>12.5</td><td>-</td><td>12.7</td><td>13.0</td><td>13.3</td><td></td><td></td><td></td><td>14.3</td><td></td><td></td><td>14.7</td><td>15.1</td><td>-</td><td>15.2</td><td>15.5</td><td>15.9</td><td>-</td><td>15.9</td><td>16.2</td><td>16.7</td><td>-</td></td<>   |      |         | AMPS    |      |      | 12.5 | -  | 12.7 | 13.0 | 13.3 |          |   |         | 14.3                        |        |         | 14.7     | 15.1 | -  | 15.2 | 15.5 | 15.9 | -  | 15.9 | 16.2 | 16.7 | -  |
| 106 113 123 - 112 119 130 - 116 124 135 - 122 130 142 - 128 136 149 - 132 141   |      |         | H PR    | 216  | 233  | 246  | •  | 242  | 261  | 275  |          |   |         | 313                         | -      |         | 338      | 357  | -  |      | 380  | 401  | -  | 330  | 420  | 444  | -  |
|   |      |         | LO PR   | 106  | 113  | 123  | •  | 112  | 119  | 130  |          |   |         | 135                         |        | 122     | 130      | 142  | -  | 128  | 136  | 149  | -  | 132  | 141  | 154  | -  |

|      |      |         |      |      |          |       |                |      |         |      | •        | •        |       | •    |      | _       |       | •    | •     |       | •  |
|------|------|---------|------|------|----------|-------|----------------|------|---------|------|----------|----------|-------|------|------|---------|-------|------|-------|-------|--|
| 40.0 | 0.44 | 10      | 3.87 | 18.0 | 487      | 172   | 38.8           | 0.42 | 11      | 3.84 | 17.8     | 482      | 171   | 35.8 | 0.40 | 11      | 3.74  | 17.4 | 467   | 165   |  |
| 37.3 | 0.68 | 15      | 3.75 | 17.4 | 467      | 162   | 36.2           | 0.65 | 15      | 3.72 | 17.3     | 462      | 160   | 33.4 | 0.63 | 16      | 3.63  | 16.8 | 448   | 155   |  |
| 34.4 | 06.0 | 18      | 3.63 | 16.9 | 442      | 148   | 33.4           | 0.86 | 19      | 3.60 | 16.8     | 437      | 147   | 30.9 | 0.83 | 19      | 3.52  | 16.4 | 424   | 142   |  |
| 33.4 | 1.00 | 19      | 3.56 | 16.6 | 411      | 139   | 32.5           | 96.0 | 20      | 3.53 | 16.4     | 407      | 138   | 0.08 | 0.93 | 21      | 3.45  | 16.0 | 394   | 134   |  |
| 43.2 | 0.44 | 11      | 3.74 | 17.1 | 440      | 167   | 41.9           | 0.42 | 11      | 3.71 | 17.0     | 436      | 165   | 38.7 | 0.40 | 12      | 3.62  | 16.5 | 423   | 160   |  |
| 40.2 | 0.68 | 16      | 3.63 | 16.5 | 422      | 156   | 39.1           | 0.65 | 16      | 3.60 | 16.4     | 418      | 155   | 36.1 | 0.62 | 17      | 3.51  | 16.0 | 406   | 150   |  |
| 37.2 | 0.90 | 19      | 3.52 | 16.1 | 400      | 143   | 36.1           | 0.85 | 20      | 3.49 | 16.0     | 396      | 142   | 33.3 | 0.82 | 20      | 3.41  | 15.6 | 384   | 138   |  |
| 36.1 | 1.00 | 21      | 3.45 | 15.8 | 372      | 135   | 35.1           | 96'0 | 22      | 3.42 | 15.6     | 368      | 133   | 32.4 | 0.92 | 22      | 3.34  | 15.3 | 228   | 129   |  |
| 45.5 | 0.42 | 11      | 3.60 | 16.2 | 392      | 159   | 44.1           | 0.40 | 12      | 3.57 | 16.1     | 388      | 157   | 40.7 | 0.39 | 12      | 3.48  | 15.7 | 376   | 153   |  |
| 42.4 | 0.65 | 16      | 3.49 | 15.7 | 375      | 149   | 41.1           | 0.62 | 17      | 3.46 | 15.6     | 372      | 148   | 38.0 | 09.0 | 17      | 3.38  | 15.2 | 360   | 143   |  |
| 39.1 | 98.0 | 20      | 3.38 | 15.3 | 355      | 137   | 38.0           | 0.82 | 20      | 3.36 | 15.1     | 352      | 135   | 35.1 | 0.79 | 71      | 3.28  | 14.8 | 341   | 131   |  |
| 38.0 | 0.97 | 21      | 3.32 | 15.0 | 330      | 128   | 36.9           | 0.92 | 22      | 3.29 | 14.8     | 327      | 127   | 34.1 | 0.89 | 22      | 3.22  | 14.5 | 317   | 123   | itions                                     |
| 46.6 | 0.41 | 11      | 3.43 | 15.3 | 344      | 151   | 45.2           | 0.39 | 11      | 3.40 | 15.2     | 340      | 150   | 41.8 | 0.37 | 12      | 3.32  | 14.8 | 330   | 145   | Shaded area is ACCA (TVA) conditions       |
| 43.4 | 0.63 | 16      | 3.32 | 14.8 | 330      | 142   | 42.2           | 09.0 | 17      | 3.30 | 14.7     | 326      | 141   | 38.9 | 0.58 | 17      | 3.22  | 14.4 | 317   | 136   | CA (TV                                     |
| 40.1 | 0.84 | 20      | 3.23 | 14.4 | 312      | 130   | 38.9           | 0.80 | 20      | 3.20 | 14.3     | 309      | 129   | 35.9 | 0.77 | 20      | 3.13  | 14.0 | 300   | 125   | a is AC                                    |
| 39.0 | 0.94 | 21      | 3.16 | 14.1 | 290      | 122   | 37.8           | 0.89 | 22      | 3.14 | 14.0     | 287      | 121   | 34.9 | 0.86 | 22      | 3.07  | 13.7 | 279   | 117   | aded are                                   |
| 47.7 | 0.40 | 11      | 3.23 | 14.3 | 302      | 146   | 46.3           | 0.38 | 11      | 3.21 | 14.2     | 299      | 144   | 42.8 | 0.37 | 12      | 3.14  | 13.8 | 290   | 140   |  |
| 44.5 | 0.62 | 16      | 3.14 | 13.8 | 290      | 137   | 43.2           | 0.59 | 17      | 3.12 | 13.7     | 287      | 135   | 39.9 | 0.57 | 17      | 3.04  | 13.4 | 278   | 131   | NOTE                                       |
| 41.1 | 0.82 | 20      | 3.05 | 13.5 | 274      | 125   | 39.9           | 0.78 | 20      | 3.03 | 13.4     | 272      | 124   | 36.8 | 0.75 | 20      | 2.96  | 13.1 | 264   | 120   |  |
| 39.9 | 0.91 | 21      | 2.99 | 13.2 | 255      | 118   | 38.7           | 0.87 | 22      | 2.97 | 13.1     | 252      | 117   | 35.8 | 0.84 | 22      | 2.90  | 12.8 | 245   | 113   |  |
| 48.9 | 0.38 | 11      | 3.02 | 13.4 | 269      | 138   | 47.4           | 0.37 | 11      | 2.99 | 13.3     | 267      | 136   | 43.8 | 0.35 | 11      | 2.93  | 13.0 | 259   | 132   | nre  |
| 45.5 | 0.60 | 16      | 2.93 | 13.0 | 258      | 129   | 40.8 44.2 47.4 | 0.57 | 16      | 2.91 | 12.9     | 256      | 128   | 40.8 | 0.55 | 17      | 2.84  | 12.6 | 248   | 124   | mperat                                     |
| 42.1 | 0.79 | 19      | 2.85 | 12.6 | 245      | 119   | 40.8           | 0.75 | 20      | 2.83 | 12.6     | 242      | 117   | 37.7 | 0.72 | 20      | 2.76  | 12.3 | 235   | 114   | Bulb Te                                    |
| 40.9 | 88'0 | 21      | 2.79 | 12.4 | 227      | 111   | 268            | 18.0 | 22      | 2.77 | 12.3     | 225      | 110   | 36.6 | 0.81 | 22      | 12.71 | 12.0 | 218   | 107   | oor Dry                                    |
| MBh  | S/T  | Delta T | ΚW   | AMPS | 표        | LO PR | MBh            | S/T  | Delta T | ΚW   | AMPS     | H<br>R   | LO PR | MBh  | S/T  | Delta T | KW    | AMPS | HI PR | LO PR | *IDB: Entering Indoor Dry Bulb Temperature |
|      |      |         | 1580 |      | <u> </u> |       |                |      |         | 1410 | <u> </u> | <u> </u> |       |      |      |         | 1240  |      |       |       | *IDB: F                                    |
|      |      |         |      |      |          |       |                |      |         | 75   |          |          |       |      |      |         |       |      |       |       |  |

High and low pressures are measured at the liquid and suction access fittings. \*IDB: Entering Indoor Dry Bulb Temperature

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### **GPC1342H41AB**

**COOLING OPERATION** 

**EXPANDED PERFORMANCE DATA** 

|      |         |         |      |      |      |      |      |      |            |         |        | ō                      | Outdoor / | Ambien | Ambient Temperature | erature              |      |      |      |        |        |        |          |           |        |    |
|------|---------|---------|------|------|------|------|------|------|------------|---------|--------|------------------------|-----------|--------|---------------------|----------------------|------|------|------|--------|--------|--------|----------|-----------|--------|----|
|      |         |         |      | 65   | 2    |      |      | 75   |            |         |        | 85                     |           |        |                     | 95                   |      |      |      | 105    |        |        |          | 115       |        |    |
|      |         |         |      |      |      |      |      |      |            |         | Ē      | <b>Entering Indoor</b> | Indoor    | Wet Bu | lb Tem              | Wet Bulb Temperature |      |      |      |        |        |        |          |           |        |    |
| IDB* | Airflow |         | 29   | ස    | 29   | 71   | 29   | 63   | <i>L</i> 9 | 74      | 29 (   | 63                     | . 29      | 71     | 29                  | 63                   | 29   | 71   | 29   | 63     |        | - 11   | 29 6     | 63 67     | 71     |    |
|      |         | MBh     | 41.6 | 42.5 | 45.4 | 48.5 | 40.6 | 41.5 | 44.3       | 47.4 3  | 39.6 4 | 40.5 4                 | 43.3 4    | 46.3   | 38.7 3              | 39.5                 | 42.2 | 45.1 | 36.7 | 37.6 4 | 40.1 4 | 42.9   | 34.0 34  | 34.8 37.2 | 2 39.  | 7  |
|      |         | S/T     | 0.97 | 0.91 | 0.74 | 0.55 | 1.00 | 0.94 | 0.76       | 0.57    | 1.00 0 | 0.96.0                 | 0.78 0    | 0.59   | 1.00                | 1.00                 | 0.81 | 09.0 | 1.00 | 1.00 ( | 0.84 0 | 0.63   | 1.00 1.0 | 1.00 0.85 | 5 0.63 | က  |
|      |         | Delta T | 23   | 22   | 19   | 16   | 24   | 23   | 20         | 16      | 23     | 23                     | 20        | 16 ;   | 23                  | 23                   | 20   | 16   | 21   | 22     | 20     | 16     | 20 2     | 20 18     | 3 15   |    |
|      | 1580    | KW      | 2.81 | 2.87 | 2.95 | 3.04 | 3.01 | 3.07 | 3.16       | 3.26 3  | 3.19 3 | 3.25 3                 | 3.35 3    | 3.45   | 3.34 3              | 3.41                 | 3.52 | 3.63 | 3.47 | 3.55   | 3.66 3 | 3.77   | 3.59 3.6 | 3.66 3.78 | 8 3.90 | 0  |
|      |         | AMPS    | 12.5 | 12.7 | 13.1 | 13.5 | 13.3 | 13.6 | 13.9       | 14.4    | 14.3 1 | 14.5 1                 | 14.9      | 5.4    | 15.1 1              | 15.4                 | 15.8 | 16.3 | 15.9 | 16.2   | 16.7 1 | 17.2   | 16.7 17  | 17.0 17.5 | 5 18.1 | _  |
|      |         | HI PR   | 230  | 247  | 261  | 272  | 258  | 277  | 293        | 305   2 | 293 3  | 315                    | 333 3     | 347 3  | 334                 | 328                  | 379  | 395  | 375  | 404 ,  | 427 4  | 445 4  | 415 4    | 446 47    | 1 492  | 2  |
|      |         | LOPR    | 113  | 120  | 131  | 139  | 119  | 126  | 138        | 147 1   | 124 1  | 131 1                  | 144 1     | 153 1  | 130 1               | 138                  | 151  | 161  | 136  | 145    | 158 1  | 168 1  | 141 15   | 150 163   | 3 174  | 4  |
|      |         | MBh     | 40.4 | 41.3 | 1.4  | 47.1 | 39.4 | 40.3 | 43.1       | 46.0 3  | 38.5 3 | 39.3 4                 | 42.0 4    | 44.9 3 | 37.6 3              | 38.4                 | 41.0 | 43.8 | 35.7 | 36.5   | 39.0 4 | 41.6   | 33.0 33  | 33.8 36.  | 1 38.6 | 9  |
|      |         | S/T     | 0.92 | 98.0 | 0.70 | 0.53 | 0.95 | 0.89 | 0.73       | 0.54 0  | 0.98   | 0.92 0                 | 0.75 0    | 0.56   | 1.00                | 0.95                 | 7.70 | 0.58 | 1.00 | 0.98   | 0.80   | 0.60   | 1.00 0.9 | 0.99 0.81 | 1 0.60 | 0  |
|      |         | Delta T | 24   | ಜ    | 20   | 16   | 25   | 24   | 8          | 16      | 25 ;   | 24                     | , 02      | 16     | 24                  | 24                   | 21   | 16   | 23   | 23     | 20     | 16     | 22 22    | 2 19      | 15     |    |
| 8    | 1410    | KW      | 2.79 | 2.85 | 2.93 | 3.02 | 2.99 | 3.05 | 3.14       | 3.23 3  | 3.16 3 | 3.23 3                 | 3.32 3    | 3.43 3 | 3.32 3              | 3.38                 | 3.49 | 3.60 | 3.45 | 3.52   | 3.63 3 | 3.74 3 | 3.56 3.6 | 3.63 3.75 | 5 3.87 | 7  |
|      |         | AMPS    | 12.4 | 12.6 | 13.0 | 13.4 | 13.2 | 13.5 | 13.8       | 14.3    | 14.1   | 14.4 1                 | 14.8      | 15.3   | 15.0 1              | 15.3                 | 15.7 | 16.2 | 15.8 | 16.1   | 16.5 1 | 17.1   | 16.6 16  | 16.9 17.4 | 4 18.0 | 0  |
|      |         | HI PR   | 227  | 245  | 258  | 269  | 255  | 274  | 290        | 302 2   | 290 3  | 312 3                  | 330 3     | 344 3  | 330                 | 356                  | 375  | 392  | 372  | 400    | 422 4  | 440    | 411 4    | 442 467   | 7 487  | _  |
|      |         | LOPR    | 111  | 119  | 129  | 138  | 118  | 125  | 137        | 146 1   | 122 1  | 130 1                  | 142 1     | 151 1  | 129                 | 137                  | 149  | 159  | 135  | 143    | 156 1  | 167    | 139 14   | 148 162   | 2 172  | 2  |
|      |         | MBh     | 37.3 | 38.1 | 40.7 | 43.5 | 36.4 | 37.2 | 39.7       | 42.5    | 35.5 3 | 36.3 3                 | 38.8 4    | 41.5 3 | 34.7 3              | 35.4                 | 37.8 | 40.5 | 32.9 | 33.6   | 36.0 3 | 38.4 3 | 30.5 31  | 31.2 33.3 | 3 35.6 | 9  |
|      |         | S/T     | 0.89 | 0.83 | 0.68 | 0.51 | 0.92 | 98.0 | 0.70       | 0.52 0  | 0.94 0 | 0.88 0                 | 0.72 0    | 0.54 0 | 0.97                | 0.91                 | 0.74 | 95.0 | 1.01 | 0.95 ( | 0.77 0 | 0.58   | 1.02 0.9 | 0.96 0.78 | 8 0.58 | œ  |
|      |         | Delta T | 22   | 23   | 20   | 16   | 25   | 24   | 21         | 17      | 25 ;   | 24                     | 21 ,      | 17     | 25                  | 24                   | 21   | 17   | 25   | 24     | 21     | 16     | 23 2     | 22 19     | 15     |    |
|      | 1240    | KW      | 2.73 | 2.78 | 2.86 | 2.95 | 2.92 | 2.98 | 3.07       | 3.16 3  | 3.09 3 | 3.15 3                 | 3.25 3    | 3.35 3 | 3.24 3              | 3.31                 | 3.41 | 3.51 | 3.37 | 3.44   | 3.54 3 | 3.65   | 3.48 3.9 | 3.55 3.66 | 6 3.77 | 7  |
|      |         | AMPS    | 12.1 | 12.4 | 12.7 | 13.1 | 12.9 | 13.2 | 13.5       | 13.9    | 13.8 1 | 14.1 1                 | 14.5      | 14.9   | 14.6 1              | 14.9                 | 15.3 | 15.8 | 15.4 | 15.7   | 16.2 1 | 16.7   | 16.2 16. | .5 17.0   | 0 17.5 | 2  |
|      |         | HI PR   | 220  | 237  | 251  | 261  | 247  | 266  | 281        | 293 2   | 281 3  | 303                    | 320 3     | 333 3  | 320                 | 345                  | 364  | 380  | 360  | 388    | 410 4  | 427    | 398 42   | 429 453   | 3 472  | CI |
|      |         | LOPR    | 108  | 115  | 126  | 134  | 114  | 121  | 133        | 141 1   | 119 1  | 126 1                  | 138 1     | 147 1  | 125                 | 133                  | 145  | 154  | 131  | . 681  | 152 1  | 162    | 135 14   | 144 157   | 7 167  | 7  |

| ST         1.00         0.98         0.71         1.00         1.00         0.99         0.74         1.00         0.91         0.74         1.00           1580         KW         2.83         2.89         2.97         3.06         3.03         3.09         3.19         3.28         3.21           AMPS         12.6         12.8         13.2         13.6         13.4         13.7         14.0         14.5         14.4           HI PR         232         250         263         275         260         280         296         308         296           LOPR         11.4         121         132         141         120         128         139         149         125           ST         0.96         0.93         0.84         0.68         1.00         0.96         0.87         0.71         1.00           ST         0.96         0.93         0.84         0.68         1.00         0.96         0.87         0.71         1.00           AMPS         1.25         1.27         13.1         13.5         13.3         13.6         14.4         14.3           HI PR         2.81         2.87         2.96         3.  | 41.1 43.1 | 45.9 39.4 | 40.1   | 42.0 44.8 | 37.4 | 38.1 | 39.9 4. | 42.6    | 34.6 35. | .3 37.0   | 39.4   |
|--|-----------|-----------|--------|-----------|------|------|---------|---------|----------|-----------|--------|
| 1580 KW 2.83 2.89 2.97 3.06 3.03 3.09 3.19 3.28 3.21 AMPS 12.6 12.8 13.2 13.6 13.4 13.7 14.0 14.5 14.4 14.9 LOPR 11.4 12.1 13.2 13.6 13.8 13.9 12.9 2.97 2.00 2.00 280 2.96 3.08 2.96 2.96 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.0  | 1.00 0.94 | 0.76 1.00 | 1.00   | 0.97 0.78 | 1.00 | 1.00 | 1.00 0. | 0.81    | 1.00     | 1.00 1.00 | 0.82   |
| KW         2.83         2.89         2.97         3.06         3.03         3.09         3.19         3.28         3.21           AMPS         12.6         12.8         13.2         13.4         13.4         13.7         14.0         14.5         14.4           HI PR         232         250         263         275         260         280         296         308         296           LOPR         114         121         132         141         120         128         139         149         125           NBh         41.1         41.9         43.9         46.8         40.1         40.9         42.8         45.7         39.2           ST         0.96         0.93         0.84         0.68         1.00         0.96         0.87         0.71         1.00           ST         2.9         2.4         2.1         2.6         2.6         2.6         2.4         2.1         2.6         2.6         2.6         2.7         30.2         3.1         3.0         3.16         3.1         3.0         3.1         3.0         3.1         3.0         3.1         3.0         3.1         3.0         3.0         3.0         3   | 24 23     | 20 23     | 23     | 24 20     | 22   | 22   | 23 2    | 20      | 20 21    | 1 22      | 19     |
| AMIPS         12.6         12.8         13.2         13.6         13.4         13.7         14.0         14.5         14.9         14.9         14.9         14.9         14.9         14.9         13.2         13.6         13.4         13.7         14.0         14.5         14.9         14.9         14.1         12.0         260         280         296         308         296         296         308         296         296         308         296         296         308         296         296         308         296         296         308         296         308         296         308         296         308         296         308         296         308         296         308         296         308         296         308         296         308         296         308         296         308         296         308         296         308         296         308         296         308         30   | 3.28 3.38 | 3.48 3.37 | 3.44   | 3.54 3.65 | 3.50 | 3.57 | 3.68 3. | 3.80    | 3.62 3.6 | 3.69 3.81 | 3.93   |
| HIPR 232 250 263 275 260 280 296 308 296 296 208 CORP CORP CORP 114 121 132 141 120 128 139 149 125 250 250 250 250 250 250 250 250 250 2  | 14.7 15.1 | 15.5 15.2 | 15.5   | 15.9 16.4 | 16.0 | 16.3 | 16.8 17 | 17.4    | 16.8 17  | 17.2 17.7 | 7 18.3 |
| MBh   111   121   132   141   120   128   139   149   125     MBh   41.1   41.9   43.9   46.8   40.1   40.9   42.8   45.7   39.2     ST   0.96   0.93   0.84   0.08   1.00   0.96   0.87   0.71   1.00     Delta T   26   25   24   21   26   26   24   21   26     AMPS   12.5   12.7   13.1   13.5   13.6   13.9   14.4   14.3     HI PR   230   247   261   272   258   277   293   305   293     LO PR   113   120   131   139   119   126   138   147   124     MBh   37.9   38.6   40.5   43.2   37.0   37.7   39.5   42.2   36.2     Delta T   26   26   24   21   26   26   27   39.5   42.2   36.2     Delta T   26   26   24   21   26   26   26   27   27     1240   KW   2.75   2.80   2.89   2.91   3.00   3.09   3.18   3.11     AMPS   12.2   12.5   12.8   13.2   13.0   13.3   13.6   14.0   13.9     HI PR   233   240   253   254   250   269   284   296   284   296   284   284   286   284   286   284   286   284   286   284   286   284 | 318 336   | 351 337   | 363    | 383 399   | 379  | 408  | 431 4   | 449 4   | 419 451  | 31 476    | 496    |
| MBh 41.1 41.9 43.9 46.8 40.1 40.9 42.8 45.7 39.2 ST 0.96 0.93 0.84 0.68 1.00 0.96 0.87 0.71 1.00 Delta T 26 25 24 21 26 26 24 21 26 3.19 MPS 12.5 12.7 13.1 13.5 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0   | 133 145   | 154 131   | 139    | 152 162   | 137  | 146  | 160 1   | 170 1   | 142 15   | 151 165   | 176    |
| ST   0.96   0.93   0.84   0.68   1.00   0.96   0.87   0.71   1.00     Delta T   26   25   24   21   26   26   24   21   26     AMPS   12.5   12.7   13.1   13.5   13.6   13.9   14.4   14.3     HI PR   230   247   261   272   258   277   293   305   293     LO PR   113   120   131   139   119   126   138   147   124     MBh   37.9   38.6   40.5   43.2   37.0   37.7   39.5   42.2   36.2     Delta T   26   26   27   26   26   26   27   26   26  | 39.9 41.8 | 44.6 38.2 | 39.0   | 40.8 43.5 | 36.3 | 37.0 | 38.8 4  | 41.3    | 33.6 34  | 34.3 35.9 | 38.3   |
| 1410         KW         2.81         2.87         2.95         3.04         3.01         3.07         3.16         3.26         3.19         3.04         3.01         3.07         3.16         3.26         3.19         3.10         3.10         3.10         3.10         3.10         3.10         3.10         3.10         3.10         3.10         3.10         3.10         3.10         3.10         3.11         3  | 0.99 0.89 | 0.72 1.00 | 1.00   | 0.92 0.75 | 1.00 | 1.00 | 0.96 0. | 0.78    | 1.00 1.0 | 96.0 00.  | 3 0.78 |
| 1410 KW 2.81 2.87 2.95 3.04 3.01 3.07 3.16 3.26 3.19  AMPS 12.5 12.7 13.1 13.5 13.3 13.6 13.9 14.4 14.3  HI PR 230 247 261 272 258 277 293 305 293  LO PR 113 120 131 139 119 126 138 147 124  MBh 37.9 38.6 40.5 43.2 37.0 37.7 39.5 42.2 36.2  S/T 0.38 0.90 0.81 0.66 0.96 0.93 0.84 0.68 0.99  Delta T 26 26 24 21 26 26 26 26 27 27 27 36.1  1240 KW 2.75 2.80 2.89 2.97 2.94 3.00 3.09 3.18 3.11  AMPS 12.2 12.5 12.8 13.2 13.0 13.3 13.6 14.0 13.9  HI PR 223 240 253 264 250 269 284 296 284 296 284   | 26 24     | 21 25     | 25     | 25 21     | 24   | 24   | 24 2    | 21 2    | 22 2     | 22 23     | 20     |
| AMPS         12.5         12.7         13.1         13.5         13.3         13.6         13.9         14.4         14.3         14.4         14.3           HI PR         230         247         261         272         258         277         293         305         293           LO PR         113         120         131         139         119         126         138         147         124           MBh         37.9         38.6         40.5         43.2         37.0         37.7         38.5         42.2         36.2           ST         0.93         0.81         0.66         0.96         0.93         0.84         0.68         0.99           Delta T         2.6         24         21         26         26         26         27         21         27           KW         2.75         2.80         2.89         2.97         2.94         3.00         3.08         3.16         3.11           AMIPS         12.2         12.5         12.8         13.0         13.0         13.0         13.9         18.0         18.0           HI PR         223         240         253         269         284   | 3.25 3.35 | 3.45 3.34 | 3.41   | 3.52 3.63 | 3.47 | 3.55 | 3.66 3. | 3.77 3. | 3.59 3.6 | 3.66 3.78 | 3.90   |
| HIPR 230 247 261 272 258 277 293 305 293 295 293 205 LOPR 113 120 131 139 119 126 138 147 124 124 125 NBh 37.9 38.6 40.5 43.2 37.0 37.7 39.5 42.2 36.2 29 STT 0.39 0.90 0.81 0.66 0.96 0.95 0.93 0.84 0.68 0.99 Delta T 26 26 26 26 26 26 27 21 87 87 87 87 87 87 87 87 87 87 87 87 87   |           | 15.4 15.1 | 15.4   | 15.8 16.3 | 15.9 | 16.2 | 16.7    | 17.2 1  | 16.7 17  | 17.0 17.5 | 18.1   |
| LOPR         113         120         131         139         119         126         138         147         124           NBh         37.9         38.6         40.5         43.2         37.0         37.7         39.5         42.2         36.2           ST         0.39         0.80         0.81         0.66         0.96         0.93         0.84         0.68         0.99           Delta T         2.6         24         21         26         26         26         27         21         27           KW         2.75         2.80         2.89         2.97         2.94         3.00         3.09         3.18         3.11           AMIPS         12.2         12.5         12.8         13.2         13.0         13.6         14.0         13.9           HI IPR         223         240         253         264         250         289         284         296         284         296         284   | 315 333   | 347 334   | 326    | 379 395   | 375  | 404  | 427 4   | 445 4   | 415 4    | 446 471   | 492    |
| NIBh         37.9         38.6         40.5         43.2         37.0         37.7         38.5         42.2         36.2           S/T         0.39         0.90         0.81         0.66         0.96         0.93         0.84         0.68         0.99           Delta T         2.6         26         26         26         26         26         27         21         27           KW         2.75         2.80         2.89         2.97         2.94         3.00         3.09         3.18         3.11           AMIPS         12.2         12.5         12.8         13.2         13.0         13.6         14.0         13.9           HI IPR         223         240         253         264         250         289         284         296         284  | 131 144   | 153 130   | 138    | 151 161   | 136  | 145  | 158 1   | 168 1   | 141 15   | 150 163   | 174    |
| S/T         0.93         0.90         0.81         0.66         0.96         0.93         0.84         0.68         0.99           Delta T         26         26         24         21         26         26         25         21         27           KW         2.75         2.80         2.89         2.97         2.94         3.00         3.09         3.18         3.11           AMPS         12.2         12.5         12.8         13.2         13.0         13.6         14.0         13.9           HI PR         223         240         253         264         250         269         284         296         284   | 36.9 38.6 | 41.2 35.3 | 36.0   | 37.7 40.2 | 33.5 | 34.2 | 35.8 38 | 38.2 3  | 31.0 31  | 31.6 33.7 | 35.4   |
| Delta T         26         26         26         27         29         26         26         26         25         21         27           KW         2.75         2.80         2.89         2.97         2.94         3.00         3.09         3.18         3.11           AMPS         12.2         12.5         12.8         13.2         13.0         13.3         13.6         14.0         13.9           HI PR         223         240         253         264         250         269         284         296         284   | 0.95 0.86 | 0.70 1.00 | 0.98   | 0.89 0.72 | 1.00 | 1.00 | 0.92 0. | 0.75    | 1.00 1.0 | 1.00 0.93 | 3 0.75 |
| KW         2.75         2.80         2.89         2.97         2.94         3.00         3.09         3.18         3.11           AMPS         12.2         12.5         12.8         13.2         13.0         13.3         13.6         14.0         13.9           HI PR         223         240         253         264         250         269         284         296         284  | 26 25     | 21 26     | 26     | 25 21     | 22   | 22   | 24 2    | 21 2    | 23 2     | 23 23     | 20     |
| 12.2         12.6         12.8         13.0         13.3         13.6         14.0         13.9           22.3         240         253         264         250         269         284         296         284   | 3.18 3.27 | 3.37 3.26 | 3.33   | 3.43 3.54 | 3.39 | 3.46 | 3.57 3. | 3.68    | 3.50 3.9 | 3.58 3.69 | 3.80   |
| 223 240 253 264 250 269 284 296 284  | 14.2 14.6 | 15.1 14.7 | 15.0 1 | 15.4 15.9 | 15.5 | 15.8 | 16.3 16 | 16.8    | 16.3 16  | 16.6 17.1 | 17.7   |
|  | 306 323   | 337 324   | 348    | 368 384   | 364  | 392  | 414 4   | 432 4   | 402 43   | 433 457   | 477    |
| LOPR   109 116 127 135   115 123 134 143   120 128   | 128 139   | 148 126   | 134    | 146 156   | 132  | 140  | 153 1   | 183 1   | 136 12   | 145 159   | 169    |

<sup>0</sup> MODEL: GPC1342H41A\*

### **COOLING OPERATION**

## **EXPANDED PERFORMANCE DATA**

**MODEL: GPC1349H41A\*** 

|                             |     |                                      | _         |        |        |         |        |        |       | П     | Ī      |        |         |        |        |       |       |        |          | i -     |        |        |       |       |
|-----------------------------|-----|--------------------------------------|-----------|--------|--------|---------|--------|--------|-------|-------|--------|--------|---------|--------|--------|-------|-------|--------|----------|---------|--------|--------|-------|-------|
|                             |     |                                      | 71        | Ľ      | _      | ľ       | - (    | - 9    | _     | ,     | ٠      | ,<br>, | '       | - 9    | - 8    |       | -     | _      |          |         | - :    | - (    | •     | -     |
|                             | 115 |                                      | 29        | 41.4   | 0.51   | 11      | 4.29   | 19.5   | 480   | 162   | 40.2   | 0.49   | 11      | 4.25   | 19.3   | 475   | 160   | 37.1   | 0.47     | 11      | 4.15   | 18.9   | 461   | 156   |
|                             |     |                                      | 63        | 37.8   | 0.73   | 14      | 4.16   | 18.9   | 454   | 148   | 36.7   | 0.70   | 15      | 4.12   | 18.8   | 450   | 147   | 33.9   | 0.68     | 15      | 4.03   | 18.3   | 436   | 143   |
|                             |     |                                      | 29        | 36.5   | 0.88   | 16      | 4.07   | 18.5   | 422   | 139   | 35.4   | 0.84   | 17      | 4.04   | 18.4   | 418   | 138   | 32.7   | 0.81     | 17      | 3.95   | 18.0   | 406   | 134   |
|                             |     |                                      | 1.1       |        |        |         |        |        | ٠     |       |        |        |         | -      |        |       |       | ٠      |          |         |        |        | -     |       |
|                             | 105 |                                      | <b>29</b> | 44.7   | 0.50   | 12      | 4.15   | 18.5   | 434   | 157   | 43.4   | 0.48   | 12      | 4.12   | 18.4   | 430   | 155   | 40.1   | 0.46     | 12      | 4.02   | 18.0   | 417   | 150   |
|                             | 1(  |                                      | 63        | 40.8   | 0.73   | 15      | 4.03   | 18.0   | 411   | 143   | 39.6   | 0.69   | 16      | 4.00   | 17.9   | 407   | 142   | 36.6   | 0.67     | 16      | 3.90   | 17.5   | 362   | 138   |
|                             |     |                                      | 29        | 39.4   | 0.87   | 18      | 3.95   | 17.7   | 382   | 135   | 38.3   | 0.83   | 18      | 3.92   | 17.5   | 378   | 134   | 35.3   | 0.80     | 19      | 3.82   | 17.1   | 367   | 130   |
|                             |     |                                      | 11        |        | -      | -       | 1      | -      |       | -     |        |        | -       | -      | -      | -     |       |        |          |         | -      | -      | -     | -     |
|                             |     |                                      | 29        | 47.1   | 0.49   | 12      | 3.99   | 17.6   | 386   | 149   | 45.7   | 0.46   | 12      | 3.96   | 17.4   | 382   | 148   | 42.2   | 0.45     | 12      | 3.87   | 17.0   | 371   | 144   |
| rature                      | 92  | Entering Indoor Wet Bulb Temperature | 63        | 43.0   | 0.70   | 15      | 3.87   | 17.1   | 396   | 137   | 41.7   | 0.67   | 16      | 3.85   | 17.0   | 362   | 136   | 38.5   | 0.65     | 16      | 3.76   | 16.6   | 351   | 131   |
| Outdoor Ambient Temperature |     | dua_c                                |           | 41.5 4 |        | . 48    |        | 16.8 1 |       | 129 1 | 40.3 4 |        | . 61    |        | 16.6 1 |       |       | 37.2 3 |          | . 61    |        | 16.2 1 |       | 124 1 |
| nbient                      |     | Vet Bull                             | 1 29      | 41     | 0.84   | H       | 3.80   |        | 340   | H     |        | 0.80   | 16      | 3.77   | 16     | 336   | 127   | 37     | 0.77     | _       | 3.68   |        | 326   |       |
| door A                      |     | door V                               | 71        | ω<br>' | - 2:   |         | - 1    | - 9    | - 6   | 2 -   | ا<br>6 | -      |         | - 8.   |        | - 9   | 1     |        | د        | -       | - 6    | - 1    | - 9   | - 2   |
| Out                         | 82  | ering Ir                             | . 67      | 1 48.3 | 8 0.47 | 12      | 0 3.81 | 2 16.6 | 1 339 | 0 142 | 8 46.9 | 5 0.45 | 12      | 7 3.78 | 0 16.5 | 8 336 | 9 141 | 5 43.3 | 3 0.43   | 12      | 9 3.69 | 7 16.1 | 8 326 | 5 137 |
|                             |     | Ente                                 | 63        | 5 44.1 | 1 0.68 | 15      | 2 3.70 | 9 16.2 | 8 321 | 3 130 | 3 42.8 | 8 0.65 | 16      | 0 3.67 | 7 16.0 | 5 318 | 1 129 | 1 39.5 | 5 0.63   | 16      | 2 3.59 | 4 15.7 | 908   | 8 125 |
|                             | _   |                                      | 29        | 42.5   | 0.81   | 18      | 3.62   | 15.9   | 298   | 123   | 41.3   | 0.78   | 18      | 3.60   | 15.7   | 295   | 121   | 38.1   | 0.75     | 19      | 3.52   | 15.4   | 286   | 118   |
|                             |     |                                      | 71        | - 2    | - 9    |         | - 0    | - 9    | 3     | - 2   | - 0    | 4 -    | -       | - 2    | - 4    | - 9   |       | 3      | 2 -      |         | - 6    | - 0    | 0     | - 1   |
|                             | 22  |                                      | 29        | 1 49.5 | 3 0.46 | 12      | 9 3.60 | 1 15.5 | 298   | 137   | 3 48.0 | 3 0.44 | 12      | 7 3.57 | 15.4   | 295   | 136   | 4 44.3 | 1 0.42   | 12      | 3.49   | 7 15.0 | 286   | 131   |
|                             |     |                                      | 63        | 5 45.1 | 99.0   | 15      | 3 3.49 | 3 15.1 | 282   | 125   | 3 43.8 | 3 0.63 | 16      | 3.47   | 7 15.0 | 279   | 124   | 40.4   | 3 0.61   | 16      | 3 3.39 | 14.7   | 271   | 120   |
|                             |     |                                      | 29        | 43.5   | 0.79   | 18      | 3.43   | 14.8   | 262   | 118   | 42.3   | 92'0   | 18      | 3.40   | 14.7   | 260   | 117   | 39.0   | 0.73     | 19      | 3.33   | 14.4   | 252   | 113   |
|                             |     |                                      | 71        |        | - 1    |         | -      | - 9    | -     | -     | '      | ۰      | •       | - 1    | - 1    |       | -     | •      | <u>.</u> |         | - (    | -      | - :   | -     |
|                             | 92  |                                      | 29        | 50.6   | 0.44   | 11      | 3.36   | 14.5   | 266   | 130   | 49.2   | 0.42   | 12      | 3.34   | 14.4   | 263   | 128   | 45.4   | 0.41     | 12      | 3.26   | 14.1   | 255   | 124   |
|                             |     |                                      | 63        | 3 46.2 | , 0.64 | 15      | 3.27   | 14.2   | . 252 | 119   | 3 44.9 | 3 0.61 | 16      | 3.24   | 14.1   | 249   | 118   | 41.4   | 0.59     | 16      | 3.17   | 13.8   | . 242 | 114   |
|                             |     |                                      | 29        | 44.6   | 0.77   | 17      | 3.20   | 13.9   | 234   | 112   | 43.3   | 0.73   | 18      | 3.18   | 13.8   | 231   | 110   | 40.0   | 0.70     | 18      | 3.11   | 13.5   | 224   | 107   |
|                             |     |                                      |           | MBh    | S/T    | Delta T | ΚM     | AMPS   | HI PR | LO PR | MBh    | Z/Z    | Delta T | ΚW     | AMPS   | HI PR | LO PR | MBh    | L/S      | Delta T | KW     | AMPS   | HI PR | LO PR |
|                             |     |                                      | Airflow   |        |        |         | 1800   |        |       | •     |        |        |         | 1600   |        |       |       |        |          | I       | 1400   |        |       |       |
|                             |     |                                      | *BQI      |        |        |         |        |        |       |       |        |        |         | 20     |        |       |       |        |          |         |        |        |       |       |

| 0.44 | 10     | 9       | 4.46   | 20.3   | 206   | 174   | 43.1      | 0.42   | 10      | 4.42   | 20.1 | 501   | 173   | 39.8   | 0.40   | 10      | 4.32   | 19.6   | 486   | 167   | _<br>                                      |
|------|--------|---------|--------|--------|-------|-------|-----------|--------|---------|--------|------|-------|-------|--------|--------|---------|--------|--------|-------|-------|--|
| 11.1 | 0.68 C | 14      | 4.32 4 | 19.6 2 | 485   | 164 1 | 40.2 4    | 0.65 C | 15      | 4.29 4 | 19.5 | 480   | 162 1 | 37.1 3 | 0.62 C | 15      | 4.18 4 | 19.0 1 | 7 994 | 157 1 |  |
| 38.2 | 0.89   | 17      | 4.19   | 19.1   | 459   | 150   | 37.1      | 0.85   | 18      | 4.16   | 18.9 | 454   | 148   | 34.2   | 0.82   | 19      | 4.06   | 18.5   | 441   | 144   |  |
| 37.1 | 1.00   | 19      | 4.10   | 18.7   | 427   | 141   | 36.0      | 0.95   | 20      | 4.07   | 18.5 | 422   | 140   | 33.3   | 0.92   | 20      | 3.98   | 18.1   | 410   | 135   |  |
| 47.9 | 0.43   | 11      | 4.31   | 19.3   | 458   | 169   | 46.5      | 0.41   | 11      | 4.28   | 19.1 | 453   | 167   | 42.9   | 0.40   | 11      | 4.18   | 18.7   | 439   | 162   |  |
| 44.7 | 0.67   | 15      | 4.18   | 18.7   | 439   | 158   | 43.4      | 0.64   | 16      | 4.15   | 18.5 | 434   | 157   | 40.0   | 0.62   | 16      | 4.05   | 18.1   | 421   | 152   |  |
| 41.3 | 0.89   | 19      | 4.06   | 18.2   | 415   | 145   | 40.1      | 0.85   | 19      | 4.03   | 18.0 | 411   | 144   | 37.0   | 0.82   | 20      | 3.93   | 17.6   | 366   | 139   |  |
| 40.1 | 0.99   | 20      | 3.98   | 17.8   | 386   | 136   | 38.9      | 0.95   | 21      | 3.95   | 17.7 | 382   | 135   | 35.9   | 0.91   | 22      | 3.85   | 17.2   | 371   | 131   |  |
| 50.4 | 0.42   | 11      | 4.15   | 18.3   | 407   | 161   | 49.0      | 0.40   | 11      | 4.12   | 18.1 | 403   | 159   | 45.2   | 0.38   | 11      | 4.02   | 17.7   | 391   | 154   |  |
| 47.0 | 0.65   | 16      | 4.02   | 17.7   | 330   | 151   | 45.6      | 0.62   | 16      | 3.99   | 17.6 | 386   | 149   | 42.1   | 0.59   | 16      | 3.90   | 17.2   | 375   | 145   |  |
| 43.4 | 0.85   | 19      | 3.91   | 17.2   | 369   | 138   | 42.2      | 0.82   | 20      | 3.88   | 17.1 | 366   | 137   | 38.9   | 0.79   | 20      | 3.79   | 16.7   | 322   | 133   |  |
| 42.2 | 0.96   | 21      | 3.83   | 16.9   | 343   | 130   | 41.0      | 0.91   | 21      | 3.80   | 16.8 | 340   | 129   | 37.8   | 0.88   | 22      | 3.71   | 16.4   | 330   | 125   | ditions                                    |
| 51.7 | 0.40   | 11      | 3.95   | 17.3   | 357   | 153   | 50.2      | 0.38   | 11      | 3.92   | 17.1 | 354   | 152   | 46.3   | 0.37   | 11      | 3.83   | 16.7   | 343   | 147   | Shaded area is ACCA (TVA) conditions       |
| 48.2 | 0.63   | 15      | 3.84   | 16.7   | 342   | 144   | 46.8      | 09.0   | 16      | 3.81   | 16.6 | 336   | 142   | 43.2   | 0.58   | 16      | 3.72   | 16.2   | 329   | 138   | CCA (T                                     |
| 44.5 | 0.83   | 19      | 3.73   | 16.3   | 324   | 132   | 43.2      | 0.79   | 20      | 3.70   | 16.2 | 321   | 130   | 39.9   | 0.76   | 20      | 3.61   | 15.8   | 311   | 126   | reaisA                                     |
| 43.2 | 0.93   | 20      | 3.65   | 16.0   | 301   | 124   | 42.0      | 0.88   | 21      | 3.62   | 15.9 | 298   | 123   | 38.7   | 0.85   | 22      | 3.54   | 15.5   | 289   | 119   | naded a                                    |
| 53.0 | 0.39   | 11      | 3.73   | 16.1   | 314   | 147   | 51.4      | 0.37   | 11      | 3.71   | 16.0 | 311   | 146   | 47.5   | 0.36   | 11      | 3.62   | 15.6   | 302   | 141   | NOTE: SP                                   |
| 49.4 | 0.61   | 15      | 3.62   | 15.6   | 301   | 138   | 47.9      | 0.58   | 16      | 3.60   | 15.5 | 298   | 137   | 44.2   | 0.56   | 16      | 3.52   | 15.2   | 289   | 133   | 2  |
| 45.6 | 0.81   | 19      | 3.52   | 15.2   | 285   | 127   | 43.0 44.3 | 0.77   | 20      | 3.50   | 15.1 | 282   | 125   | 40.9   | 0.74   | 20      | 3.42   | 14.8   | 274   | 122   |  |
| 44.3 | 0.90   | 20      | 3.45   | 14.9   | 265   | 119   |           | 0.86   | 21      | 3.43   | 14.8 | 262   | 118   | 39.7   | 0.83   | 22      | 3.35   | 14.5   | 254   | 114   |  |
| 54.2 | 0.38   | 11      | 3.48   | 15.1   | 280   | 139   | 52.7      | 0.36   | 11      | 3.46   | 15.0 | 277   | 138   | 48.6   | 0.35   | 11      | 3.38   | 14.7   | 269   | 134   | atrice                                     |
| 50.5 | 0.59   | 15      | 3.38   | 14.7   | 268   | 131   | 49.1      | 0.56   | 16      | 3.36   | 14.5 | 266   | 130   | 45.3   | 0.54   | 16      | 3.29   | 14.2   | 258   | 126   | empera                                     |
| 46.7 | 0.78   | 19      | 3.29   | 14.3   | 254   | 120   | 45.3      | 0.74   | 19      | 3.27   | 14.2 | 252   | 119   | 41.8   | 0.72   | 20      | 3.20   | 13.9   | 244   | 115   | y Bulb T                                   |
| 45.3 | 0.87   | 20      | 3.23   | 14.0   | 236   | 113   | 44.0      | 0.83   | 21      | 3.21   | 13.9 | 234   | 112   | 40.6   | 0.80   | 21      | 3.14   | 13.6   | 227   | 108   | doar Dry                                   |
| MBh  | S/T    | Delta T | ΚM     | AMPS   | HI PR | LO PR | MBh       | S/T    | Delta T | ΚM     | AMPS | HI PR | LO PR | MBh    | S/T    | Delta T | ΚM     | AMPS   | HI PR | LO PR | *IDB: Entering Indoor Dry Bulb Temperature |
|      |        |         | 1800   |        |       |       |           |        |         | 1600   |      |       |       |        |        |         | 1400   |        |       |       | * IDB:                                     |
|      |        |         |        |        |       |       | •         |        |         | 75     |      |       |       | •      |        |         |        |        |       |       |  |

High and low pressures are measured at the liquid and suction access fittings. \*IDB: Entering Indoor Dry Bulb Temperature

### **5MM COILS**

### **GPC1349H41AA**

**COOLING OPERATION** 

**EXPANDED PERFORMANCE DATA** 

|      |         |         |      |      |      |      |      |      |        |         |         | Ō       | Outdoor A                  | mbien   | Ambient Temperature | rature      |      |       |        |        |         |           |           |          |          |          |
|------|---------|---------|------|------|------|------|------|------|--------|---------|---------|---------|----------------------------|---------|---------------------|-------------|------|-------|--------|--------|---------|-----------|-----------|----------|----------|----------|
|      |         |         |      | 9    |      |      |      | 75   |        |         |         | 85      |                            |         |                     | 92          |      |       |        | 105    |         |           |           | 115      |          |          |
|      |         |         |      |      |      |      |      |      |        |         | Ф       | ntering | <b>Entering Indoor Wet</b> | Net Bu  | Bulb Temp           | Temperature |      |       |        |        |         |           |           |          |          |          |
| IDB* | Airflow |         | 29   | 63   | 29   | 71   | 29   | 63   | 29     | 71      | 29 (    | 63      | 67 7                       | 71      | 29 (                | ಜ           | 29   | 7.1   | 29     | 63     | 67 7    | 71 5      | 59 63     | 29   1   | 71       |          |
|      |         | MBh     | 46.1 | 47.2 | 50.4 | 53.9 | 45.1 | 46.1 | 49.2   | 52.6 4  | 44.0 4  | 45.0 4  | 48.0 5                     | 51.4 4. | 42.9 4              | 43.9 4      | 46.9 | 50.1  | 40.8   | 41.7 4 | 44.5 47 | 47.6 37   | .8 38.6   | 6 41.2   | 2 44.1   |          |
|      |         | SYT     | 96.0 | 0.90 | 0.73 | 0.55 | 1.00 | 0.93 | 0.76 ( | 0.56    | 1.00 0  | 0.95 0  | 0.78 0.                    | 0.58    | 1.00                | 00'1        | 08.0 | 09.0  | 1.00   | 0 00'1 | 0.83 0. | 0.62      | 1.00      | .00 0.84 | 4 0.63   | 22       |
|      |         | Delta T | 23   | 22   | 19   | 15   | 23   | 22   | 19     | 15      | 22      | 22      | 19 1                       | 15      | 22                  | 22          | 19   | 15    | 21     | 21     | 19 1    | 15 1      | 19 20     | 18       | 14       |          |
|      | 1800    | ΚM      | 3.25 | 3.31 | 3.41 | 3.51 | 3.48 | 3.55 | 3.65   | 3.76 3  | 3.68 3. | 75 3    | 87 3                       | 86      | 3.86                | 3.94 4      | 4.06 | 4.18  | 4.01   | 4.09 4 | 4.22 4. | 4.35 4.   | 4.14 4.2  | .22 4.35 | 5 4.49   | _        |
|      |         | AMPS    | 14.1 | 14.4 | 14.8 | 152  | 15.0 | 15.3 | 15.7   | 16.2    | 16.1    | 16.4 1  | 16.9 17                    | 17.4 1  | 17.0 1              | 17.4 1      | 17.9 | 18.4  | 17.9   | 18.3 1 | 18.8 19 | 19.4 18.  | 3.8 19.   | 2 19.    | 8 20.4   | 1        |
|      |         | H       | 238  | 257  | 271  | 283  | 268  | 288  | 304 (  | 317   3 | 304     | 328     | 346 3                      | 361 3   | 347 3               | 373         | 394  | 411   | 390    | 420 4  | 443 4   | 462 4     | 431 464   | 4 490    | ) 511    |          |
|      |         | LO PR   | 114  | 121  | 132  | 141  | 120  | 128  | 140    | 149 1   | 125 1   | 133 1   | 145 1                      | 155 1   | 131 1               | . 140       | 153  | 162   | 138    | 146 1  | 160 1   | 170 1.    | 142 151   | 1 165    | 5 176    |          |
|      |         | MBh     | 44.8 | 45.8 | 48.9 | 52.3 | 43.8 | 44.7 | 47.8   | 51.1 4  | 42.7 4  | 43.7 4  | 46.6 49                    | 49.9 4  | 41.7 4              | 42.6        | 45.5 | 48.6  | 39.6   | 40.5 4 | 43.2 46 | 46.2   36 | 36.7 37.5 | 5 40.0   | 0 42.8   |          |
|      |         | S/T     | 0.91 | 0.85 | 0.70 | 0.52 | 0.94 | 0.89 | 0.72 ( | 0.54 0  | 0.97 0  | 0.91 0  | 0.74 0.                    | 0.55    | 1.00 0              | 0.94 0      | 0.76 | . 250 | 1.00 ( | 0.97 0 | 0.79 0. | 0.59      | 00.18     | 8 0.80   | 09:0 C   | _        |
|      |         | Delta T | 23   | 22   | 20   | 16   | 24   | 23   | 20     | 16      | 24      | 23      | 20 1                       | 16      | 24                  | 23          | 20   | 16    | 23     | 23     | 20 1    | 16 2      | 21 21     | 18       | 15       |          |
| 8    | 1600    | ΚW      | 3.23 | 3.29 | 3.38 | 3.48 | 3.45 | 3.52 | 3.62   | 3.73 3  | 3.65 3  | 3.73 3  | 3.84 3.                    | 3.95    | 3.83 3              | 3.91        | 4.02 | 4.15  | 3.98   | 4.06 4 | 4.18 4. | 4.31 4.   | 4.11 4.19 | 9 4.32   | 2 4.46   |          |
|      |         | AMPS    | 14.0 | 14.3 | 14.7 | 15.1 | 14.9 | 15.2 | 15.6   | 16.1    | 16.0 1  | 16.3 1  | 16.7 17                    | 17.3    | 16.9 1              | 17.2        | 17.7 | 18.3  | 17.8   | 18.2 1 | 18.7 19 | 19.3      | 18.7 19.  | 1 19.    | 6 20.3   |          |
|      |         | HI PR   | 236  | 254  | 268  | 280  | 265  | 285  | 301    | 314 3   | 301     | 324     | 342 3                      | 357 3   | 343 3               | 369         | 390  | 407   | 386    | 415 4  | 439 4   | 458 4;    | 427 459   | 9 485    | 5 506    |          |
|      |         | LO PR   | 113  | 120  | 131  | 139  | 119  | 127  | 138    | 147   1 | 124 1   | 132 1   | 144 1                      | 153 1   | 130 1               | 138         | 151  | 161   | 136    | 145 1  | 158 1   | 169 1     | 141 150   | 164      | 174      | <u> </u> |
|      |         | MBh     | 41.4 | 42.3 | 45.1 | 48.3 | 40.4 | 41.3 | 44.1 4 | 47.1 3  | 39.4 4  | 40.3 4  | 43.0 46                    | 46.0 3  | 38.5 3              | 39.3 4      | 42.0 | 44.9  | 36.5   | 37.3 3 | 39.9 42 | 42.6 33.  | 3.9 34.6  | 3/       | 7.0 39.5 | ا م ا    |
|      |         | S/T     | 0.88 | 0.82 | 0.67 | 0.50 | 0.91 | 0.85 | 0.70   | 0.52 0  | 0.93 0  | 0.88 0  | 0.71 0.                    | 0.53 0. | 0.96                | 06:0        | 0.74 | 0.55  | 1.00 ( | 0.94 0 | 0.76 0. | 0.57      | 1.01 0.5  | .95 0.77 | 7 0.58   | ~        |
|      |         | Delta T | 24   | 23   | 20   | 16   | 24   | 23   | 20     | 16      | 24      | 23      | 20 1                       | 16      | 24 ;                | 23          | 20   | 16    | 24     | 23     | 20 1    | 16 2      | 22 21     | 19       | 15       |          |
|      | 1400    | KW      | 3.16 | 3.22 | 3.31 | 3.41 | 3.38 | 3.44 | 3.54   | 3.65 3  | 3.57 3  | 3.64 3  | 3.75 3.                    | 3.86    | 3.74 3              | 3.82 3      | 3.93 | 4.05  | 3.88   | 3.96 4 | 4.08 4. | 4.21 4.   | 4.01 4.09 | 9 4.22   | 2 4.35   | اءا      |
|      |         | AMPS    | 13.7 | 14.0 | 14.3 | 14.8 | 14.6 | 14.9 | 15.3   | 15.7    | 15.6 1  | 15.9 1  | 16.4 16                    | 16.9 1  | 16.5 1              | 16.8 1      | 17.3 | 17.9  | 17.4   | 17.7 1 | 18.2 18 | 18.8      | 18.2 18.6 | 6 19.2   | 2 19.8   |          |
|      |         | HI PR   | 229  | 246  | 260  | 271  | 257  | 277  | 292    | 305 2   | 292     | 315     | 332 3                      | 346 3   | 333 3               | 358         | 378  | 395   | 375 ,  | 403 4  | 426 4.  | 444 4     | 414 445   | 5 470    | ) 490    |          |
|      |         | LO PR   | 109  | 116  | 127  | 135  | 116  | 123  | 134    | 143     | 120 1   | 128 1   | 139 14                     | 149     | 126 1               | 134         | 146  | 156   | 132    | 141 1  | 154 1   | 163       | 137 145   | 5 159    | 9 169    | _        |

| ~~:    | 81     | 18      | 4.53   | 20.6   | 516   | 178   | 42.5 | 77     | 19      | 49     | 20.4   | -     | 176   | 39.2   | 0.75   | 19      | 4.38   | 20.0   | 495 | 11    | 1  |
|--------|--------|---------|--------|--------|-------|-------|------|--------|---------|--------|--------|-------|-------|--------|--------|---------|--------|--------|-----|-------|--|
| 0 43.8 | 0 0.81 |         |        |        |       |       |      | 0.77   |         | 5 4.49 |        | 0 511 |       |        |        |         |        |        |     | 0 171 |  |
| 2 41.0 | 00.1   | 21      | 5 4.39 | 4 20.0 | 3 495 | 167   | 39.8 | 96.0 C | 22      | 2 4.35 | 2 19.8 | 1 490 | 165   | 1 36.8 | 0.92   | 22      | 2 4.25 | 3 19.3 | 475 | , 160 |  |
| 39.2   | 1.00   | 20      | 4.26   | 19.4   | 468   | 153   | 38.0 | 1.00   | 22      | 4.22   | 19.2   | 464   | 151   | 1 35.1 | 1.00   | 23      | 4.12   | 18.8   | 450 | 147   |  |
| 38.4   | 1.00   | 20      | 4.17   | 19.0   | 435   | 144   | 37.3 | 1.00   | 21      | 4.14   | 18.8   | 431   | 142   | 34.4   | 1.00   | 23      | 4.04   | 18.4   | 418 | 138   |  |
| 47.3   | 0.81   | 19      | 4.38   | 19.6   | 467   | 172   | 45.9 | 0.77   | 20      | 4.35   | 19.4   | 462   | 170   | 42.4   | 0.74   | 21      | 4.24   | 19.0   | 448 | 165   |  |
| 44.3   | 0.99   | 22      | 4.25   | 19.0   | 448   | 161   | 43.0 | 0.95   | 23      | 4.22   | 18.8   | 443   | 160   | 39.7   | 0.91   | 24      | 4.12   | 18.4   | 430 | 155   |  |
| 42.3   | 1.00   | 22      | 4.12   | 18.5   | 424   | 148   | 41.1 | 1.00   | 24      | 4.09   | 18.3   | 420   | 146   | 37.9   | 1.00   | 22      | 3.99   | 17.9   | 407 | 142   |  |
| 41.5   | 1.00   | 17      | 4.04   | 18.1   | 394   | 139   | 40.3 | 1.00   | 23      | 4.01   | 17.9   | 068   | 138   | 37.2   | 1.00   | 24      | 3.91   | 17.5   | 378 | 133   |  |
| 49.7   | 0.78   | 20      | 421    | 18.6   | 415   | 164   | 48.3 | 0.74   | 21      | 4.18   | 18.4   | 411   | 162   | 44.6   | 0.71   | 21      | 4.08   | 18.0   | 366 | 158   |  |
| 46.6   | 96.0   | 23      | 4.09   | 18.0   | 398   | 154   | 45.3 | 0.91   | 24      | 4.06   | 17.9   | 394   | 153   | 41.8   | 0.88   | 24      | 3.96   | 17.4   | 382 | 148   | power  |
| 44.5   | 1.00   | 23      | 3.97   | 17.5   | 377   | 141   | 43.2 | 1.00   | 25      | 3.94   | 17.4   | 373   | 140   | 39.9   | 26.0   | 26      | 3.84   | 17.0   | 362 | 136   | KW = Total system power                        |
| 43.7   | 1.00   | 22      | 3.89   | 17.1   | 320   | 133   | 42.4 | 1.00   | 24      | 3.86   | 17.0   | 347   | 131   | 39.1   | 1.00   | 26      | 3.77   | 16.6   | 336 | 127   | W = Tota                                       |
| 51.0   | 0.75   | 20      | 4.02   | 17.5   | 364   | 156   | 49.5 | 0.72   | 20      | 3.98   | 17.4   | 361   | 155   | 45.7   | 69.0   | 21      | 3.89   | 17.0   | 320 | 150   | 不  |
| 47.8   | 0.93   | 23      | 3.90   | 17.0   | 349   | 147   | 46.4 | 0.88   | 24      | 3.87   | 16.9   | 346   | 145   | 42.8   | 0.85   | 24      | 3.78   | 16.5   | 332 | 141   | ature  |
| 45.6   | 1.00   | 23      | 3.78   | 16.5   | 331   | 134   | 44.3 | 0.98   | 25      | 3.75   | 16.4   | 328   | 133   | 40.9   | 0.94   | 25      | 3.67   | 16.0   | 318 | 129   | emper  |
| 44.8   | 1.00   | 23      | 3.71   | 16.2   | 307   | 126   | 43.5 | 1.00   | 25      | 3.68   | 16.1   | 304   | 125   | 40.1   | 0.98   | 26      | 3.60   | 15.7   | 295 | 121   | tering Indoor Dry Bulb Temperature             |
| 52.2   | 0.73   | 20      | 3.79   | 16.4   | 320   | 150   | 20.7 | 0.70   | 20      | 3.76   | 16.2   | 317   | 149   | 46.8   | 29.0   | 21      | 3.68   | 15.9   | 308 | 144   | door Dr  |
| 49.0   | 0.90   | 23      | 3.68   | 15.9   | 307   | 141   | 47.5 | 0.86   | 24      | 3.65   | 15.7   | 304   | 140   | 43.9   | 0.83   | 24      | 3.57   | 15.4   | 295 | 136   | ering In                                       |
| 46.7   | 1.00   | 24      | 3.57   | 15.4   | 291   | 129   | 45.4 | 96.0   | 25      | 3.55   | 15.3   | 288   | 128   | 41.9   | 0.92   | 25      | 3.47   | 15.0   | 279 | 124   | IDB: Ent                                       |
| 45.9   | 1.00   | 23      | 3.50   | 15.1   | 270   | 121   | 44.5 | 0.99   | 25      | 3.48   | 15.0   | 268   | 120   | 41.1   | 0.95   | 26      | 3.40   | 14.7   | 260 | 117   | ľ  |
| 53.5   | 0.71   | 19      | 3.54   | 15.3   | 285   | 142   | 51.9 | 0.67   | 20      | 3.51   | 152    | 283   | 141   | 47.9   | 0.65   | 20      | 3.43   | 14.9   | 274 | 137   | SL   |
| 50.1   | 0.87   | 22      | 3.43   | 14.9   | 274   | 134   | 48.7 | 0.83   | 23      | 3.41   | 14.8   | 271   | 132   | 44.9   | 0.80   | 24      | 3.33   | 14.4   | 263 | 128   | ondition                                       |
| 47.9   | 0.97   | 24      | 3.34   | 14.5   | 259   | 122   | 46.5 | 0.92   | 25      | 3.31   | 14.4   | 257   | 121   | 42.9   | 0.89   | 25      | 3.24   | 14.1   | 249 | 117   | ating C  |
| 47.0   | 1.00 ( | 24      | 3.28   | 14.2   | 241   | 115   | 45.6 | 0.96   | 25      | 3.25   | 14.1   | 238   | 114   | 42.1   | 0.92 ( | 25      | 3.18   | 13.8   | 231 | 110   | s AHRI R                                       |
| MBh    | S/T    | Delta T | KW     | AMPS   | H R   | LO PR | MBh  | S/T    | Delta T | KW     | AMPS   | H R   | LO PR | MBh    | S/T    | Delta T | KW     | AMPS   | 표   | LO PR | * NOTE: Shaded areas is AHRI Rating Conditions |
|        |        |         | 1800   |        |       | L     |      |        |         | 1600   |        |       |       |        |        |         | 1400   |        |     |       | OTE: Sha                                       |
|        |        |         |        |        |       |       |      |        |         | 82     |        |       |       | _      |        |         |        |        |     |       | ž<br>*   |

\* NOTE: Shaded areas is AHRI Rating Conditions IDB: Entering Indoor Dry Bulb Temperature KW = High and low pressures are measured at the liquid and suction access fittings.

AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

### **5MM COILS**

### GPC1360H41BB

**COOLING OPERATION** 

## **EXPANDED PERFORMANCE DATA MODEL: GPC1360H41B\***

| П                           |     |                                      | 71      |         | 1       | -       | ı       |         |        |        |         |         | -       | -       |           |        | 1      |         | -       |         | -       |         |        |        |
|-----------------------------|-----|--------------------------------------|---------|---------|---------|---------|---------|---------|--------|--------|---------|---------|---------|---------|-----------|--------|--------|---------|---------|---------|---------|---------|--------|--------|
|                             |     |                                      | 29      | 52.4    | 0.47    | 12      | 5.72    | 25.2    | 510    | 159    | 6.09    | 0.45    | 12      | 5.67    | 25.0      | 505    | 157    | 46.9    | 0.44    | 12      | 5.53    | 24.4    | 490    | 153    |
|                             | 115 |                                      | 63      | 47.8    | 89.0    | 15      | 5.54    | 24.5    | 483    | 146    | 46.4    | 9.0     | 16      | 5.49    | 24.3      | 479    | 144    | 42.8    | 0.63    | 16      | 5.35    | 23.7    | 464    | 140    |
|                             |     |                                      | 29      | 46.1    | 0.82    | 18      | 5.41    | 24.0    | 449    | 137    | 44.8    | 0.78    | 19      | 5.37    | 23.8      | 445    | 135    | 41.3    | 0.75    | 19      | 5.23    | 23.1    | 431    | 131    |
|                             |     |                                      | 71      | -       | -       | -       | -       | -       |        | -      |         | -       | -       | -       | -         | -      | -      | -       | -       |         | -       | -       | -      | -      |
|                             | 2   |                                      | 29      | 56.5    | 0.47    | 13      | 5.53    | 23.9    | 462    | 154    | 54.9    | 0.45    | 13      | 5.48    | 23.7      | 457    | 152    | 50.7    | 0.43    | 13      | 5.34    | 23.1    | 444    | 148    |
|                             | 105 |                                      | 63      | 51.6    | 0.68    | 16      | 5.35    | 23.2    | 438    | 141    | 50.1    | 9.0     | 17      | 5.30    | 23.0      | 433    | 139    | 46.2    | 0.62    | 17      | 5.17    | 22.5    | 420    | 135    |
|                             |     |                                      | 29      | 49.8    | 0.81    | 19      | 5.23    | 22.7    | 407    | 132    | 48.3    | 7.70    | 20      | 5.19    | 22.5      | 403    | 131    | 44.6    | 0.75    | 20      | 5.06    | 22.0    | 390    | 127    |
|                             |     |                                      | 7.1     | -       | -       | -       | -       | -       |        | -      |         | -       | -       | -       | -         | -      |        | -       | -       |         | -       | -       | -      | 1      |
|                             |     |                                      | 29      | 59.5    | 0.45    | 13      | 5.30    | 22.6    | 411    | 147    | 57.8    | 0.43    | 13      | 5.26    | 22.4      | 407    | 145    | 53.3    | 0.42    | 13      | 5.12    | 21.9    | 394    | 141    |
| rature                      | 92  | Entering Indoor Wet Bulb Temperature | ස       | 54.3    | 0.65    | 17      | 5.13    | 22.0    | 389    | 134    | 52.7    | 0.62    | 17      | 5.09    | 21.8      | 385    | 133    | 48.7    | 09:0    | 18      | 4.96    | 21.2    | 374    | 129    |
| Outdoor Ambient Temperature |     | p Temp                               |         |         |         | , 61    |         |         |        | 126 1  |         |         |         |         |           |        | 125 1  |         |         |         |         |         |        |        |
| mbient                      |     | Vet Bull                             | 71 59   | . 52.4  | - 0.78  | -   18  | - 5.02  | - 21.5  | . 361  | . 12   | - 50.9  | 0.75    | . 20    | . 4.98  | . 21.3    | . 358  | . 12   | . 47.0  | . 0.72  | . 20    | . 4.86  | . 20.8  | . 347  | - 121  |
| tdoor A                     |     | ndoor V                              | 67 7    | 61.0    | 0.44    | 13 -    | 5.03    | 21.3    | . 361  | 140    | 59.2    | 0.42    | 13 -    | 4.99    | . 1.      | . 257  | . 82   | 54.7    | 0.40    | 13      | 4.87    | 20.6    | 346    | 134    |
| O                           | 82  | tering I                             | 63 6    | 55.7 61 | 0.63 0. | 17 1    | 4.88 5. | 20.7 21 | 341 36 | 128 14 | 54.1 59 | 0.60    | 17 1    | 4.84 4. | 20.5 21.1 | 338 34 | 127 1: | 49.9 54 | 0.58 0. | 18 1    | 4.72 4. | 20.0 20 | 328 3  | 123 13 |
|                             |     | Ent                                  | 29 6    | 53.7 55 | 0.76 0. | 19 1    | 4.77 4. | 20.2 20 | 317 3  | 120 1: | 52.2 54 | 0.72 0. | 20 1    | 4.73 4. | 20.1 20   | 314 3  | 119 1; | 48.1 49 | 0.70 0. | 20 1    | 4.62 4. | 19.6 20 | 305 33 | 115 1; |
|                             |     |                                      | 71 5    | ·   5   | - 0     | -   1   | - 4.    | -   🛚   | - 3    | - 1    | - 5     | - 0     | 7   -   | - 4.    | -   🛚     | - 3    | - 1    | - 4     | - 0     | -       | - 4.    | - 19    | - 3    | - 1    |
|                             |     |                                      | . 29    | 62.5    | 0.43    | 13      | 4.73    | 19.8    | 317    | 134    | 2.09    | 0.41    | 13      | 4.69    | 19.6      | 314    | 133    | 56.0    | 0.39    | 13      | 4.58    | 19.1    | 304    | 129    |
|                             | 75  |                                      | 63      | 57.0 6  | 0.62 0  | 17      | 4.59 4  | 19.2 1  | 300    | 123 1  | 55.4 6  | 0.59 0  | 17      | 4.55 4  | 19.0 1    | 297 3  | 122 1  | 51.1 5  | 0.57 0  | 18      | 4.44 4  | 18.6 1  | 288 3  | 118 1  |
|                             |     |                                      | 29      | 55.0 5  | 0.74 C  | 19      | 4.49 4  | 18.8 1  | 279    | 116 ,  | 53.4 5  | 0.70    | 20      | 4.45 4  | 18.7 1    | 276    | , 114  | 49.3 5  | 0.68    | 20      | 4.35 4  | 18.2 1  | 268 2  | 111 ,  |
|                             |     |                                      | 71      | -       | -       | -       | 7 -     |         | •      | -      | -       | ) -     | -       | -       |           | -      | -      | -       | ) -     |         | 7 -     |         | -      | -      |
|                             |     |                                      | 29      | 64.0    | 0.41    | 12      | 4.39    | 18.4    | 283    | 127    | 62.1    | 0.39    | 13      | 4.36    | 18.3      | 280    | 126    | 57.3    | 0.38    | 13      | 4.25    | 17.9    | 271    | 122    |
|                             | 92  |                                      | 63      | 58.4    | 0.59    | 16      | 4.26    | 17.9    | 268    | 116    | 29.7    | 0.57    | 17      | 4.22    | 17.8      | 265    | 115    | 52.3    | 0.55    | 17      | 4.12    | 17.4    | 257    | 112    |
|                             |     |                                      | 29      | 56.3    | 0.71    | 19      | 4.17    | 17.6    | 249    | 109    | 54.7    | 89.0    | 20      | 4.14    | 17.4      | 246    | 108    | 50.5    | 9.0     | 20      | 4.04    | 17.0    | 239    | 105    |
|                             |     |                                      |         | MBh     | L/S     | Delta T | KW      | AMPS    | H PR   | LO PR  | MBh     | L/S     | Delta T | KW      | AMPS      | HI PR  | LO PR  | MBh     | L/S     | Delta T | KW      | AMPS    | HI PR  | LO PR  |
|                             |     |                                      | M       | _       |         | Ď       |         | Ą       |        | ľ      | ۷<br>ا  |         | Ŏ       |         | A         | I      | L      | ۷       |         | Ŏ       |         | Ą       | I      | L      |
|                             |     |                                      | Airflow |         |         |         | 1948    |         |        |        |         |         |         | 1728    |           |        |        |         |         |         | 1518    |         |        |        |
|                             |     |                                      | IDB*    |         |         |         |         |         |        |        |         |         |         | 2       |           |        |        |         |         |         |         |         |        |        |

|      |      |         |      |      |     |       |      |      |         |      | •    | •   |       | •    |      |         | •    | •    | •   | • •   |
|------|------|---------|------|------|-----|-------|------|------|---------|------|------|-----|-------|------|------|---------|------|------|-----|-------|
| 56.1 | 0.40 | 11      | 2.97 | 26.4 | 538 | 171   | 54.5 | 0.39 | 11      | 5.92 | 26.1 | 533 | 169   | 50.3 | 0.37 | 11      | 5.76 | 25.5 | 517 | 164   |
| 52.3 | 0.63 | 16      | 2.77 | 25.5 | 516 | 161   | 50.8 | 0.60 | 16      | 5.72 | 25.2 | 511 | 159   | 46.8 | 0.58 | 16      | 5.58 | 24.6 | 495 | 154   |
| 48.3 | 0.83 | 19      | 5.58 | 24.7 | 488 | 147   | 46.9 | 0.79 | 20      | 5.54 | 24.5 | 484 | 146   | 43.3 | 92.0 | 20      | 5.40 | 23.9 | 469 | 141   |
| 46.9 | 0.93 | 21      | 5.46 | 24.2 | 454 | 138   | 45.5 | 0.89 | 21      | 5.45 | 24.0 | 449 | 137   | 42.0 | 0.85 | 22      | 5.28 | 23.3 | 436 | 133   |
| 9.09 | 0.40 | 11      | 5.76 | 25.0 | 487 | 165   | 58.8 | 0.38 | 12      | 5.71 | 24.8 | 482 | 164   | 54.3 | 0.37 | 12      | 5.57 | 24.1 | 468 | 159   |
| 56.4 | 0.62 | 17      | 2.57 | 24.1 | 467 | 155   | 54.8 | 09:0 | 17      | 5.53 | 23.9 | 462 | 154   | 9.09 | 0.57 | 18      | 5.39 | 23.3 | 448 | 149   |
| 52.1 | 0.82 | 20      | 5.39 | 23.4 | 442 | 142   | 9.09 | 0.79 | 21      | 5.35 | 23.2 | 438 | 141   | 46.7 | 0.76 | 21      | 5.21 | 22.6 | 424 | 137   |
| 50.6 | 0.92 | 77      | 2.28 | 22.9 | 411 | 134   | 49.2 | 88'0 | 23      | 5.23 | 22.7 | 407 | 132   | 45.4 | 0.85 | 23      | 5.10 | 22.2 | 394 | 128   |
| 63.8 | 0.39 | 12      | 5.52 | 23.6 | 433 | 158   | 61.9 | 0.37 | 12      | 5.48 | 23.4 | 428 | 156   | 57.1 | 0.36 | 12      | 5.34 | 22.8 | 416 | 151   |
| 59.4 | 09.0 | 17      | 5.34 | 22.8 | 415 | 148   | 27.7 | 0.57 | 18      | 5.30 | 22.6 | 411 | 147   | 53.2 | 0.55 | 18      | 5.17 | 22.1 | 398 | 142   |
| 54.9 | 0.79 | 21      | 5.17 | 22.1 | 393 | 136   | 53.3 | 0.76 | 21      | 5.13 | 22.0 | 389 | 134   | 49.2 | 0.73 | 22      | 5.00 | 21.4 | 377 | 130   |
| 53.3 | 0.89 | 22      | 2.06 | 21.7 | 365 | 128   | 51.8 | 0.85 | 23      | 5.02 | 21.5 | 361 | 126   | 47.8 | 0.82 | 24      | 4.90 | 21.0 | 351 | 122   |
| 65.3 | 0.37 | 12      | 5.24 | 22.2 | 380 | 150   | 63.4 | 0.36 | 12      | 5.20 | 22.0 | 376 | 149   | 58.6 | 0.34 | 12      | 2.07 | 21.5 | 365 | 144   |
| 6.09 | 0.58 | 17      | 5.08 | 21.5 | 364 | 141   | 59.1 | 0.56 | 17      | 5.03 | 21.3 | 361 | 140   | 54.6 | 0.54 | 18      | 4.91 | 20.8 | 320 | 135   |
| 56.3 | 0.77 | 20      | 4.92 | 20.9 | 345 | 129   | 54.6 | 0.73 | 21      | 4.88 | 20.7 | 342 | 128   | 50.4 | 0.71 | 22      | 4.76 | 20.2 | 331 | 124   |
| 54.6 | 0.86 | 22      | 4.81 | 20.4 | 321 | 121   | 53.0 | 0.82 | 23      | 4.77 | 20.2 | 317 | 120   | 49.0 | 0.79 | 23      | 4.66 | 19.7 | 308 | 117   |
| 6.99 | 0.37 | 12      | 4.93 | 20.6 | 334 | 144   | 65.0 | 0.35 | 12      | 4.89 | 20.4 | 331 | 143   | 0.09 | 0.34 | 12      | 4.77 | 19.9 | 321 | 139   |
| 62.4 | 0.57 | 17      | 4.77 | 19.9 | 320 | 136   | 9.09 | 0.54 | 17      | 4.73 | 19.8 | 317 | 134   | 55.9 | 0.52 | 18      | 4.62 | 19.3 | 308 | 130   |
| 57.6 | 0.75 | 20      | 4.62 | 19.4 | 303 | 124   | 55.9 | 0.72 | 21      | 4.59 | 19.2 | 300 | 123   | 51.6 | 69.0 | 22      | 4.47 | 18.7 | 291 | 119   |
| 26.0 | 0.84 | 22      | 4.53 | 19.0 | 282 | 117   | 54.3 | 0.80 | 23      | 4.49 | 18.8 | 279 | 116   | 50.2 | 22.0 | 23      | 4.38 | 18.4 | 122 | 112   |
| 68.5 | 0.32 | 11      | 4.57 | 192  | 298 | 137   | 99   | 0.34 | 12      | 4.53 | 19.0 | 295 | 135   | 61.4 | 0.32 | 12      | 4.42 | 18.6 | 286 | 131   |
| 63.9 | 0.55 | 17      | 4.43 | 18.6 | 285 | 128   | 62.0 | 0.52 | 17      | 4.39 | 18.4 | 283 | 127   | 57.2 | 0.50 | 17      | 4.29 | 18.0 | 274 | 123   |
| 59.0 | 0.72 | 20      | 4.29 | 18.1 | 270 | 118   | 57.3 | 0.69 | 21      | 4.26 | 17.9 | 268 | 116   | 52.9 | 0.67 | 21      | 4.16 | 17.5 | 260 | 113   |
| 57.3 | 0.81 | 22      | 4.20 | 17.7 | 251 | 111   | 25.6 | 0.77 | 23      | 4.17 | 17.6 | 249 | 109   | 51.3 | 0.74 | 23      | 4.07 | 17.1 | 241 | 106   |
| MBh  | S/T  | Delta T | ΚM   | AMPS | 표   | LO PR | MBh  | S/T  | Delta T | ΚM   | AMPS | 표   | LO PR | MBh  | S/T  | Delta T | ΚM   | AMPS | 표   | LO PR |
|      |      |         | 1948 |      |     |       |      |      |         | 1728 |      |     |       |      |      |         | 1518 |      |     |       |
|      |      |         |      |      |     |       |      |      |         | 75   |      |     |       |      |      |         |      |      |     |       |

NOTE: Shaded area is ACCA (TVA) conditions \*IDB: Entering Indoor Dry Bulb Temperature High and low pressures are measured at the liquid and suction access fittings.

### **5MM COILS**

50.3 53.7 0.89 0.72

48.1 25 5.63

1.00

498 150

497 169 58.0

476 158

25 5.49 23.8 451 145

5.37 23.3 419 136

5.62 161

25 5.43 23.2 423 151

26.3 26 5.26 22.5 401

26 5.15 22.0

25 5.16

5.00 26

21 5.01 20.9

0.84 25 4.85 20.3

26 4.70

0.81 4.50 18.9

S/T Delta T

MBh

26 4.36 18.4

4.*27* 18.0 256

KW

1948

H R LO PR

4.60 19.3 288

5.33 22.6

388 153

372 144

327 124

341 147

327 138

309

304 139 4.64 19.5

291 131

463

5.86

0.92 24 5.67 24.6

25

24 5.82

25.7 52.1 162

24.9 493 149

46.5 0.86 24 5.67

44.4

25 5.49

4

### **GPC1360H41BB**

**COOLING OPERATION** 

**EXPANDED PERFORMANCE DATA** 

|      |         |         |      |      |      |      |      |      |      |      |      |         | Outdoo | r Ambie | ent Tem  | Outdoor Ambient Temperature          |      |      |      |      |      |      |      |      |      |      |
|------|---------|---------|------|------|------|------|------|------|------|------|------|---------|--------|---------|----------|--------------------------------------|------|------|------|------|------|------|------|------|------|------|
|      |         |         |      | 9    | 65   |      |      | 7    | 75   |      |      | 82      | 2      |         |          | 95                                   | 2    |      |      | 105  | 2    |      |      | 115  |      |      |
|      |         |         |      |      |      |      |      |      |      |      |      | Enterin | gIndoc | r Wet E | 3ulb Tei | Entering Indoor Wet Bulb Temperature | re   |      |      |      |      |      |      |      |      |      |
| IDB* | Airflow |         | 29   | 63   | 29   | 71   | 29   | 63   | 29   | 71   | 29   | 63      | 29     | 71      | 29       | ೞ                                    | 67   | 71   | 59   | 63   | 29   | 71   | 29   | 63   | 29   | 71   |
|      |         | MBh     | 58.3 | 59.6 | 63.7 | 68.1 | 57.0 | 58.2 | 62.2 | 66.5 | 55.6 | 56.8    | 2.09   | 64.9    | 54.3     | 55.4                                 | 59.2 | 63.3 | 51.5 | 52.7 | 56.3 | 60.1 | 47.7 | 48.8 | 52.1 | 55.7 |
|      |         | S/T     | 0.89 | 0.83 | 0.68 | 0.51 | 0.92 | 0.86 | 0.70 | 0.52 | 0.94 | 0.88    | 0.72   | 0.54    | 1.00     | 0.91                                 | 0.74 | 0.56 | 1.00 | 0.95 | 0.77 | 0.58 | 1.00 | 96.0 | 0.78 | 0.58 |
|      |         | Delta T | 24   | 23   | 20   | 16   | 25   | 24   | 21   | 16   | 25   | 24      | 21     | 16      | 56       | 24                                   | 21   | 17   | 24   | 24   | 20   | 16   | 23   | 22   | 19   | 15   |
|      | 1948    | KW      | 4.24 | 4.33 | 4.46 | 4.61 | 4.56 | 4.66 | 4.81 | 4.97 | 4.85 | 4.96    | 5.12   | 5.29    | 5.11     | 5.22                                 | 5.39 | 5.57 | 5.32 | 5.44 | 5.62 | 5.81 | 5.51 | 5.63 | 5.82 | 6.02 |
|      |         | AMPS    | 17.8 | 18.2 | 18.7 | 19.4 | 19.1 | 19.5 | 20.1 | 20.8 | 20.6 | 21.0    | 21.7   | 22.4    | 21.8     | 22.3                                 | 23.0 | 23.8 | 23.1 | 23.6 | 24.4 | 25.2 | 24.4 | 24.9 | 25.7 | 26.6 |
|      |         | HI PR   | 254  | 273  | 288  | 301  | 285  | 306  | 324  | 337  | 324  | 348     | 368    | 384     | 369      | 397                                  | 419  | 437  | 415  | 446  | 471  | 492  | 458  | 493  | 521  | 543  |
|      |         | LO PR   | 112  | 119  | 130  | 138  | 118  | 126  | 137  | 146  | 123  | 130     | 142    | 152     | 129      | 137                                  | 150  | 159  | 135  | 144  | 157  | 167  | 140  | 149  | 162  | 173  |
|      |         | MBh     | 9.99 | 67.9 | 61.8 | 66.1 | 55.3 | 56.5 | 60.4 | 64.5 | 54.0 | 55.2    | 58.9   | 63.0    | 52.7     | 53.8                                 | 57.5 | 61.5 | 50.0 | 51.1 | 54.6 | 58.4 | 46.3 | 47.4 | 9.09 | 54.1 |
|      |         | S/T     | 0.85 | 0.79 | 0.65 | 0.48 | 0.88 | 0.82 | 0.67 | 0.50 | 0.90 | 0.84    | 69.0   | 0.51    | 0.93     | 0.87                                 | 0.71 | 0.53 | 96.0 | 0.30 | 0.74 | 0.55 | 0.97 | 0.91 | 0.74 | 0.55 |
|      |         | Delta T | 56   | 24   | 21   | 17   | 56   | 25   | 22   | 17   | 56   | 22      | 22     | 17      | 56       | 22                                   | 22   | 17   | 56   | 22   | 21   | 17   | 24   | 23   | 20   | 16   |
| 80   | 1728    | KW      | 4.20 | 4.29 | 4.43 | 4.57 | 4.53 | 4.62 | 4.77 | 4.93 | 4.81 | 4.92    | 2.08   | 5.24    | 90.9     | 5.17                                 | 5.35 | 5.52 | 5.28 | 5.39 | 2.57 | 5.76 | 5.46 | 5.58 | 5.77 | 5.97 |
|      |         | AMPS    | 17.7 | 18.1 | 18.6 | 192  | 19.0 | 19.4 | 19.9 | 20.6 | 20.4 | 20.9    | 21.5   | 22.2    | 21.7     | 22.1                                 | 22.8 | 23.6 | 22.9 | 23.4 | 24.1 | 25.0 | 24.2 | 24.7 | 25.5 | 26.4 |
|      |         | HI PR   | 251  | 270  | 285  | 298  | 282  | 303  | 320  | 334  | 321  | 345     | 364    | 380     | 365      | 393                                  | 415  | 433  | 411  | 442  | 467  | 487  | 454  | 488  | 516  | 538  |
|      |         | LO PR   | 111  | 118  | 128  | 137  | 117  | 124  | 136  | 144  | 121  | 129     | 141    | 150     | 128      | 136                                  | 148  | 158  | 134  | 142  | 155  | 165  | 138  | 147  | 161  | 171  |
|      |         | MBh     | 52.3 | 53.4 | 57.1 | 61.0 | 51.0 | 52.2 | 55.7 | 59.6 | 49.8 | 50.9    | 54.4   | 58.2    | 48.6     | 49.7                                 | 53.1 | 56.7 | 46.2 | 47.2 | 50.4 | 53.9 | 42.8 | 43.7 | 46.7 | 49.9 |
|      |         | S/T     | 0.82 | 0.77 | 0.62 | 0.47 | 0.85 | 0.79 | 0.65 | 0.48 | 0.87 | 0.81    | 99.0   | 0.50    | 0.90     | 0.84                                 | 0.68 | 0.51 | 0.93 | 0.87 | 0.71 | 0.53 | 0.94 | 0.88 | 0.72 | 0.53 |
|      |         | Delta T | 56   | 22   | 22   | 17   | 26   | 25   | 22   | 17   | 56   | 22      | 22     | 17      | 56       | 22                                   | 22   | 18   | 26   | 22   | 22   | 17   | 24   | 23   | 20   | 16   |
|      | 1518    | KW      | 4.10 | 4.19 | 4.32 | 4.46 | 4.42 | 4.51 | 4.66 | 4.81 | 4.69 | 4.80    | 4.95   | 5.11    | 4.94     | 5.05                                 | 5.21 | 5.38 | 5.14 | 5.26 | 5.43 | 5.61 | 5.32 | 5.44 | 5.62 | 5.81 |
|      |         | AMPS    | 17.3 | 17.6 | 18.1 | 18.7 | 18.5 | 18.9 | 19.4 | 20.1 | 19.9 | 20.3    | 20.9   | 21.6    | 21.1     | 21.6                                 | 22.2 | 23.0 | 22.3 | 22.8 | 23.5 | 24.3 | 23.5 | 24.1 | 24.8 | 25.7 |
|      |         | HI PR   | 244  | 262  | 277  | 289  | 273  | 294  | 311  | 324  | 311  | 332     | 353    | 369     | 354      | 381                                  | 402  | 420  | 398  | 429  | 453  | 472  | 440  | 474  | 200  | 522  |
|      |         | LO PR   | 107  | 114  | 125  | 133  | 113  | 121  | 132  | 140  | 118  | 125     | 137    | 146     | 124      | 132                                  | 144  | 153  | 130  | 138  | 151  | 160  | 134  | 143  | 156  | 166  |

| 4 8 | 162          | 152  | 433<br>139 | 402          | 424          | 406<br>145<br>m power | 358 385 406<br>125 133 145<br>KW = Total system power | 358<br>125<br>KW = T | 372          | 357<br>138<br>rature | 338<br>127<br>Tempe | 314<br>119<br>Ory Bulb | 327<br>142<br>ndoor I |              | 314<br>133<br>ntering | 297<br>122<br>IDB: Ent | 114          | 32 276<br>34 114 | 280 292 276<br>126 134 114<br>Conditions | 280 292 276<br>126 134 114<br>Conditions | 280 292 276<br>126 134 114<br>Conditions | 246 265 280 292 276 114 as is AHRI Rating Conditions |
|-----|--------------|------|------------|--------------|--------------|-----------------------|---|----------------------|--------------|----------------------|---------------------|------------------------|-----------------------|--------------|-----------------------|------------------------|--------------|------------------|--|--|--|--|
| 5.3 | 5.66<br>24.6 | 5.48 | 5.30       | 5.19<br>22.5 | 5.43<br>23.2 | 5.25<br>22.4          | 5.09<br>21.8  | 4.98<br>21.3         | 5.16<br>21.8 | 4.99<br>21.1         | 4.83                | 4.73<br>20.1           | 4.85                  | 4.69<br>19.6 | 4.55<br>19.0          | 4.45<br>18.6           | 4.49<br>18.9 |                  | 4.14 4.22<br>17.4 17.8                   | 4.14                                     | KW                                       | 1518   |
| 26  | 22           | 26   | 27         | 28           | 23           | 26                    | 28  | 28                   | 22           | 26                   | 27                  | 28                     | 22                    | 26           | 27                    | 28                     | 22           | 26               | 27                                       | 28                                       | Delta T                                  |  |
| 0.9 | 0.69         | 0.85 | 0.94       | 0.97         | 99.0         | 0.82                  | 0.91  | 0.94                 | 0.64         | 0.79                 | 0.88                | 0.91                   | 0.63                  | 0.77         | 0.86                  | 0.89                   | 0.60         | 0.75             | 0.83                                     | 0.86                                     | S/T                                      |  |
| 43. | 53.5         | 50.2 | 47.9       | 47.0         | 56.3         | 52.8                  | 50.4  | 49.5                 | 57.7         | 54.1                 | 51.7                | 20.7                   | 59.2                  | 55.4         | 52.9                  | 51.9                   | 9.09         | 26.8             | 53.2 54.2                                | 53.2                                     | MBh                                      |  |
| 14( | 167          | 157  | 144        | 135          | 159          | 150                   | 137   | 129                  | 152          | 142                  | 130                 | 123                    | 146                   | 137          | 126                   | 118                    | 138          | 130              | 119                                      | 112                                      | LO PR                                    |  |
| 458 | 492          | 471  | 446        | 415          | 437          | 419                   | 397   | 698                  | 384          | 368                  | 348                 | 324                    | 337                   | 324          | 306                   | 285                    | 301          | 288              | 273                                      | 254                                      | HI PR                                    |  |
| 24. | 25.2         | 24.4 | 23.6       | 23.1         | 23.8         | 23.0                  | 22.3  | 21.8                 | 22.4         | 21.7                 | 21.0                | 20.6                   | 20.8                  | 20.1         | 19.5                  | 19.1                   | 19.4         | 18.7             | 18.2                                     | 17.8                                     | AMPS                                     |  |
| 2.5 | 5.81         | 5.62 | 5.44       | 5.32         | 222          | 5.39                  | 5.22  | 5.11                 | 5.29         | 5.12                 | 4.96                | 4.85                   | 4.97                  | 4.81         | 4.66                  | 4.56                   | 4.61         | 4.46             | 4.24 4.33                                | 4.24                                     | ΚM                                       | 1728   |
| 25  | 22           | 22   | 27         | 27           | 22           | 26                    | 22  | 28                   | 22           | 26                   | 27                  | 28                     | 22                    | 26           | 27                    | 28                     | 22           | 22               | 27                                       | 27                                       | Delta T                                  |  |
| 1.0 | 0.71         | 0.88 | 0.98       | 1.00         | 0.69         | 0.85                  | 0.94  | 0.97                 | 0.67         | 0.82                 | 0.91                | 0.94                   | 0.65                  | 0.80         | 0.89                  | 0.92                   | 0.63         | 0.77             | 0.89 0.86                                | 0.89                                     | S/T                                      |  |
| 47  | 58.0         | 54.4 | 51.9       | 6.03         | 61.0         | 57.2                  | 54.6  | 53.6                 | 62.6         | 58.6                 | 26.0                | 54.9                   | 64.1                  | 60.1         | 57.4                  | 26.3                   | 9.59         | 61.5             | 28.7                                     | 9'2'9                                    | MBh                                      |  |
| J   |              |      |            |              |              |                       |   |                      |              |                      |                     |                        |                       |              |                       |                        |              |                  |  |  |  |  |

High and low pressures are measured at the liquid and suction access fittings.

AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

MODEL: GPC1360H41B\*

### **PERFORMANCE TEST**

All data based upon listed indoor dry bulb temperature. .00 inches external static pressure on coil of outdoor section. Indoor air cubic feet per minute (CFM) as listed in the Performance Data Sheets:

If conditions vary from this, results will change as follows:

- 1. As indoor dry bulb temperatures increase, a slight increase will occur in indoor air temperature drop (Delta T). Low and high side pressures and power will not change.
- 2. As indoor CFM decreases, a slight increase will occur in indoor temperature drop (Delta T). A slight decrease will occur in low and high side pressures and power.

A properly operating unit should be within plus or minus 3 degrees of the typical (Delta T) value shown.

A properly operating unit should be within plus or minus **7 PSIG** of the **HI PR** shown.

A properly operating unit should be within plus or minus 3 PSIG of the LO PR shown.

A properly operating unit should be within plus or minus **3 Amps** of the typical value shown.



